

Planning Application for the Aylesbury Estate Regeneration

Masterplan & First Development Site Application

Sustainability Statement

HTA Design LLP



















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Written By	Rory Bergin
Checked By	Elisabetta Li Destri Nicosia
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1.0 INTRODUCTION

This document describes the response to the sustainability policies for the Aylesbury First Development site and the Masterplan. Where the same policy response is relevant to both elements of the project the information is provided in the description of the first Development site and referenced in the masterplan description but not repeated.

EXECUTIVE SUMMARY

The Aylesbury Estate

The Aylesbury estate is a regeneration project encompassing the demolition and reconstruction of approximately 3500 homes in Southwark, London. The regeneration project will continue over the coming decades as the residents are decanted and rehoused in the new dwellings. The application is for

- a) The First Development Site
- b) The Comprehensive Development (FDS and Masterplan)

This document describes our Sustainability Strategy for the First Development Site and The Masterplan which is

- compliant with local, regional and national policies.
- is consistent with current legislation and our understanding of future proposed legislation
- creates a successful, enjoyable, healthy and low impact neighbourhood

We have used BREEAM Communities as the supporting standard for the proposals to ensure that we are meeting current best practice in sustainable design and masterplanning.

Our sustainability strategy for The First Development site is to create a new urban quarter that meets or exceeds the highest quality standards for new housing in London. The substantial size of this phase is designed to rehouse substantial numbers of current residents in order to free up existing buildings for demolition. This will accelerate the pace of the development. Regarding energy efficiency we are delivering a London Plan policy compliant sustainability strate-

gy that relies on highly energy efficient buildings that meet Building Regulations 2013 and exceed them by 36.81% of CO2 emissions. We will achieve this by linking all the dwellings to a common heating system powered by a gas fired Combined Heat & Power and supplementing this with some roof-mounted renewable energy. Please refer to the Energy Strategy document for further detail.

Sustainability Standards

We will use BREEAM Communities Standard to manage the links in the sustainability strategy between the Outline Masterplan and this first phase of development.

The extra care building in the First Development Site will be developed to meet the requirements of BREE-AM Very Good.

We have completed and submit the Southwark Sustainable Development Checklist as a chapter in this document.

The First Development Site will meet the standards set out in the Code for Sustainable Homes Level 4.

Although the Code for Sustainable Homes is set to be removed from Government policy in the near future, we are committed to producing a Code compliant scheme as this standard represents a good and well-understood benchmark for sustainable development.

Since it is a requirement of GLA planning legislation it will be some time before it is removed from policy requirements and in that light we are proceeding with the design for the First Development Site as though the Code remains in place.

Subsequent phases will meet the standards required in the relevant London Plan in force when each phase is delivered.

The Aylesbury Masterplan showing the Green Routes and Spaces



2.0 NATIONAL POLICIES

National Planning Policy framework (NPPF)

The National Planning Policy Framework states that 'there are three dimensions to sustainable development: economic, social and environmental'.

economic – contributing to building a strong, responsive and competitive economy, by ensuring that sufficient land of the right type is available in the right places and at the right time to support growth and innovation; and by identifying and coordinating development requirements, including the provision of infrastructure;

social – supporting strong, vibrant and healthy communities, by providing the supply of housing required to meet the needs of present and future generations; and by creating a high quality built environment, with accessible local services that reflect the community's needs and support its health, social and cultural well-being;

The environmental role is described as 'contributing to protecting and enhancing our natural, built and historic environment: and, as part of this, helping to improve biodiversity, use natural resources prudently, minimise waste and pollution, and mitigate and adapt to climate change including moving to a low carbon economy'.

The NPPF goes on to state that '..to achieve sustainable development, economic, social and environmental gains should be sought jointly and simultaneously through the planning system'.

This development supports all three aims by

- contributing to the local economy as evidenced by a commitment to achieve the elements SE 01 Economic Impact and SE 17 Labour and Skills of the BREEAM Communities Standard.
- contributing to social development by achieving the SE 17 labout & Skills element of the BREEAM Communities Standard, the SE 02 Demographic Needs and Priorities, SE 05 Housing Provisions and SE 06 Delivery of Services, Facilities and Amenities element.
- protecting and enhancing the ntural, built and historic envoronment by meeting the requirements

of RE 01 energy Strategy, SE 11 Green Infrastructure, SE 03 Flood risk, RE 07 Transport CO2 emissions, RE 04 Sustainable Buildings and LE 01 Ecology Strategy.

REGIONAL POLICIES (THE LONDON PLAN)

The London Plan, Spatial Development Strategy for Greater London

Policy 5.1 Climate change mitigation: Achieve an overall reduction in londons CO2 emissions of 60% (below 1990 levels) by 2025

London Plan Policy 5.2, Minimising Carbon Dioxide Emissions

Development proposals should make the fullest contribution to minimising CO2 in accordance with the following energy hierarchy:

- 1. Be lean: use less energy.
- 2. Be clean: supply energy efficiently.
- 3. Be green: use renewable energy.

Major development proposals should include a detailed energy assessment to demonstrate how the minimum targets for CO2 reduction outlined above are to be met within the framework of the energy hierarchy.

The First Development Site

Refer to the Energy Strategy for predicted CO2 savings in buildings, from energy efficient services and from renewable energy systems.

The Masterplan

Refer to the Energy Strategy for predicted CO2 savings in buildings, from energy efficient services and from renewable energy systems.

LONDON PLAN POLICY 5.3, SUSTAINABLE DESIGN AND CONSTRUCTION

Major development proposals should meet the minimum standards outlined in the Mayor's Supplementary Planning Guidance on Sustainable Design and Construction14 and this should be clearly demonstrated within a design and access statement. The standards include measures to achieve the following sustainable design principles:

 a) Minimising CO2 across the site, including the building and services (such as heating and cooling systems).

- b) Avoiding internal overheating and contributing to the urban heat island effect.
- c) Efficient use of natural resources, including making the most of natural systems both within and around buildings.
- d) Avoiding pollution (including noise, air and urban runoff).
- e) Minimising the generation of waste and maximising reuse or recycling.
- f) Avoiding impacts from natural hazards (such as flooding).
- g) Ensuring developments are comfortable and secure for users, including avoiding the creation of adverse local climatic conditions.
- h) Securing sustainable procurement of materials, using local supplies where feasible, and
- i) Promoting and protecting biodiversity and green infrastructure.
- c) Efficient use of natural resources, including making the most of natural systems both within and around buildings.
- d) Avoiding pollution (including noise, air and urban runoff).
- e) Minimising the generation of waste and maximising reuse or recycling.
- f) Avoiding impacts from natural hazards (such as flooding).
- g) Ensuring developments are comfortable and secure for users, including avoiding the creation of adverse local climatic conditions.
- h) Securing sustainable procurement of materials, using local supplies where feasible, and
- i) Promoting and protecting biodiversity and green infrastructure.

The site is designed to meet the requirements of Code for Sustainable Homes level 4, BREEAM Communities Very Good and BREEAM New Construction 2011 Very Good for the Care Home. See the pre-assessments for all of these standards in this document.

The Masterplan

The site is designed to meet the requirements of Code for Sustainable Homes level 4 as a minimum and BREEAM Communities Very Good. See the pre-assessments for these standards in this document.

LONDON PLAN POLICY 5.5, DECENTRALISED ENERGY NETWORKS

The Mayor expects 25% of the heat and power used in London to be generated through the use of localised decentralised energy systems by 2025. In order to achieve this target the Mayor prioritises the development of decentralised heating and cooling networks at the development and area wide levels, including larger scale heat transmission networks.

The First Development Site

Refer to the Energy Strategy for predicted energy contributions from distributed energy generation.

The Masterplan

Refer to the Energy Strategy for predicted energy contributions from distributed energy generation.

LONDON PLAN POLICY 5.6, DECENTRALISED ENERGY IN DEVELOPMENT PROPOSALS

Development proposals should evaluate the feasibility of Combined Heat and Power (CHP) systems, and where a new CHP system is appropriate also examine opportunities to extend the system beyond the site boundary to adjacent sites

Major development proposals should select energy systems in accordance with the following hierarchy:

- 1. Connection to existing heating or cooling networks.
- 2. Site wide CHP network.
- 3. Communal heating and cooling.

The First Development Site

Refer to the Energy Strategy for a description of the Decentralised Energy generation proposals including CHP and Heat Network.

The Masterplan

Refer to the Energy Strategy for a description of the Decentralised Energy generation proposals including CHP and Heat Network.

LONDON PLAN POLICY 5.7, RENEWABLE ENERGY

The Mayor seeks to increase the proportion of

energy generated from renewable sources

Within the framework of the energy hierarchy, major development proposals should provide a reduction in expected CO2 through the use of on-site renewable energy generation, where feasible.

The First Development Site

Refer to the Energy Strategy for predicted energy contributions from renewable energy generation.

The Masterplan

Refer to the Energy Strategy for predicted energy contributions from renewable energy generation.

LONDON PLAN POLICY 5.9, OVERHEATING AND COOLING

The Mayor seeks to reduce the impact of the urban heat island effect in London and encourages the design of places and spaces to avoid overheating and excessive heat generation, and to reduce overheating due to the impacts of climate change and the urban heat island effect on an area wide basis.

Major development proposals should reduce potential overheating and reliance on air conditioning systems and demonstrate this in accordance with the following cooling hierarchy:

- 1. Minimise internal heat generation through energy efficient design.
- Reduce the amount of heat entering a building in summer through orientation, shading, albedo, fenestration, insulation and green roofs and walls.
- 3. Manage the heat within the building through exposed internal thermal mass and high ceilings.
- 4. Passive ventilation.
- 5. Mechanical ventilation.
- 6. Active cooling systems (ensuring they are the lowest carbon options).

Major development proposals should demonstrate how the design, materials, construction and operation of the development would minimise overheating and also meet its cooling needs. New development in London should also be designed to avoid the need for energy intensive air conditioning systems as much as possible. Further details and guidance regarding overheating and cooling are outlined in the London Climate Change Adaptation Strategy.

The First Development Site

Refer to the Energy Strategy for assessment of heating/cooling strategy for the proposals.

The Masterplan

SE 08 Microclimate

The Masterplan is designed in accordance with the BREEAM Communities requirements SE 08 Microclimate

Aim: To ensure the development provides a comfortable outdoor environment through the control of general climatic conditions

- 1. A microclimate simulation shows the effect of urban morphology on the external microclimate
- 2. The development is designed to minimise adverse conditions
- 3. The development is designed to increase positive conditions throughout the year
- An appropriate and diverse range of favourable microclimate conditions have been provided throughout the development
- 7. The design of public space optimises microclimate conditions
- 8. The location and design of routes takes account of microclimate conditions

Energy Strategy

Refer to the Energy Strategy for assessment of heating/cooling strategy for the proposals.

LONDON PLAN POLICY 7.1, BUILDING LONDON'S NEIGHBOURHOODS AND COMMUNITIES

Planning decisions

C. Development should enable people to live healthy, active lives; should maximise the opportunity for community diversity, inclusion and cohesion [...] and should met the principles of lifetime neighbourhoods.

The First Development Site

The design incorporates 6 units of specialist housing for adults and 50 units of older persons accommodation in Extra Care building.

Code for Sustainable Homes

The First Development Site proposals are designed

to meet the requirements for Health and Wellbeing under HEA1/2/3/4 in the Code for Sustainable Homes. These requirements cover daylight, sunlight, sound transmission, private amenity space(balconies & terraces) and Lifetime Homes. Lifetime Homes is a set of requirements that are designed to enable homes to be flexible enough to accommodate disabled or housebound occupants with the minimum of alterations.

Ene 8 - Cycle Storage

Communal and individual bike stores to be provided for all dwellings at a rate of 1 cycle space for every 2 bedrooms for apartments and one cycle space per bedroom for the one bedroom apartments. The use of cycles to travel helps residents keep fit and healthy and reduces the carbon emissions of their transportation.

BREEAM Communities

The First Development site is designed in accordance with the BREEAM Communities requirements TM 02 Safe and Appealing Streets

Aim: To create safe and appealing spaces that encourages human interaction and a positive sense of place.

- The transport assessment or statement and travel plans are used to inform the objectives for the design of streets.
- A context appraisal has carried out to determine the appropriate layout of streets in relation to existing context
- A movement framework has developed to determine the layout and design of streets that will promote sustainable modes of movement and transport through travel plans
- Street layouts are safe and secure, overlooked and ownership is clear.
- Design measures are incorporated into the masterplan to ensure safety with regard to large vehicles and pedestrian and cycle movement.
 Delivery areas are not accessed through parking areas and do not share pedestrian and cyclist routes.
- The landscape design strategy enhances pedestrian routes through design and the provision of attractive landscaping.
- 9. Pedestrian routes allow easy navigation using key features and existing neighbourhoods.
- 11. Within the developments traffic management

- plan, targets have been set regarding road traffic accident reduction.
- Potential vehicle noise disturbance and potential visual and vibration disturbance from heavy vehicles mitigated through layout and buffer zones.
- 14. A maintenance contract will be in place for external areas that are not covered by the local authority for at least five years from occupation.

TM 03 Cycling network

The First Development site is designed in accordance with the BREEAM Communities requirements for TM 03 Cycling network

Aim: To promote cycling as a leisure activity and as an alternative to vehicle use by providing a safe and efficient cycle network.

1. The movement framework developed for TM02 covers items A-E in the standard

Cycle routes are segregated from vehicles and pedestrians as appropriate:

- on low speed streets (below 20mph) cyclists can be integrated with vehicles
- on busy streets or where there are higher traffic speeds there should be clearly defined cycle lanes.

TM 05 Cycling Facilities

The First Development site is designed in accordance with the BREEAM Communities requirements for TM 05 Cycling Facilities

Aim: To promote cycling by ensuring the adequate provision of cyclist facilities.

- 1. Consultation has taken place to establish likely requirements for cycling facilities.
- 2. The results have been analysed and an appropriate level of cycle facilities has been agreed.
- 4. A commitment exists to provide adequate space for cycle storage
- Non-residential uses have facilities in accordance with BREEAM 2011
- 7. During consultation the LA and developer have agreed a maintenance strategy for facilities

SE 05 Housing Provision

The First Development site is designed in

accordance with the BREEAM Communities requirements for SE 05 housing Provision.

Aim:To minimise social inequalities and foster a socially inclusive community by ensuring appropriate housing provision within the development.

- 1. The housing type and tenure is based on the needs of the local area (SE02)
- The developer and LA agree on specific targets for the number of affordable, social and intermediate housing on the site
- 3. The developer commits to achieving minimum space standards throughout the development
- The proposed affordable units are distributed across the development and integrated with the other dwellings in terms of design
- Suitable financial models are established so that displaced residents are prioritised, and that affordable units will be available to meet future demographic trends.

SE 07 Public Realm

The First Development site is designed in accordance with the BREEAM Communities requirements for SE 07 Public Realm

Aim: To encourage social interaction by creating comfortable and vibrant spaces in the public realm.

- 1. Consultation has taken place to understand the activities that the public realm can promote
- 2. The public realm is designed to allow multiple uses for different users
- 3. The design of the public realm takes account of the role it plays in connectivity
- An assessment is carried out to determine the potential of using some streets as shared street space or homezones
- Where there are appropriate spaces identified plans indicate where those spaces will be developed. Appropriate surfaces and signage will be used to identify these areas

OR.

- 7. Where shared streets are inappropriate, the design shows how space for social interaction has been considered
- Evidence from microclimate studies are used to influence the design of social spaces, benches are located in shaded areas
- 10. The local identity is strengthened through the

design of social spaces, informed by consultation.

The Masterplan Code for Sustainable Homes

The Masterplan is designed in to allow the Code for Sustainable Homes benchmarks to be applied to all housing within the development parcels.

BREEAM Communities

The Masterplan is designed in accordance with the BREEAM Communities requirements TM 02 Safe and Appealing Streets (see First Development site description for further details)

The Masterplan is designed in accordance with the BREEAM Communities requirements SE 02 Housing Provision (see First Development site description for further details)

The Masterplan is designed in accordance with the requirements of SE 06 Delivery of Services, Facilities and Amenities.

Aim: To ensure essential facilities are provided and that they are located within a reasonable and safe walking distance.

Local requirements gathered from consultation are used to determine facilities to be provided, and these are provided within a walkable distance from most homes.

TM 03 Cycling network

The Masterplan is designed in accordance with the BREEAM Communities requirements for TM 03 Cycling network

Aim: To promote cycling as a leisure activity and as an alternative to vehicle use by providing a safe and efficient cycle network.

Cycle routes are segregated from vehicles and pedestrians as appropriate:

- on low speed streets (below 20mph) cyclists can be integrated with vehicles
- on busy streets or where there are higher traffic speeds there should be clearly defined cycle lanes

TM 05 Cycling Facilities

The Masterplan is designed to facilitate the BREEAM Communities requirements for TM 05 Cycling Facilities.

LONDON PLAN POLICY 7.6, ARCHITECTURE

Strategic

A. Architecture should make a positive contribution to a coherent public realm, streetscape and wider cityscape. It should incorporate the highest quality materials and design appropriate to its context.

Planning Decisions

- B. Buildings and structures should:
- e) Incorporate best practice in resource management and climate change mitigation and adaptation
- f) Provide high quality indoor and outdoor spaces and integrate well with the surrounding streets and open spaces.

The First Development Site The Code for Sustainable Homes

The First Development Site is designed to meet the requirements for pollution impacts under Pol 1/2 in the Code for Sustainable Homes.

Pol 1 - Global Warming Potential
This credit will be achieved by requiring that
the contractor manages the building materials
specification to ensure that no insulants with a
GWP of more than 5 are specified. This includes
all insulation materials in the building fabric and
services.

Pol 2 - NOx Emissions

This will be achieved by requiring the contractor to specify low NOx boilers in the individual or communal heating system. This assumes that gasfired boilers are to be used.

The First Development Site is designed to meet the requirements for Construction site Impacts under Man2/3 in the Code for Sustainable Homes.

Man 2 - Considerate Constructors Scheme
The contractor building this scheme will be required to be a member of this scheme and score 32 points or above for the development.

Man 3 - Construction Site Impacts
The contractor will be required to measure the impacts of construction in terms of energy and water usage and set targets for site activities including water consumption and CO2 emissions.

Was 2 - Site Waste Management Plan

The contractor will be required to provide a Site Waste Management Plan will be implemented on this project. 85% of construction waste will be diverted from landfill.

The Masterplan

The Masterplan is designed to meet the requirements for Health and Wellbeing under HEA1/2/3/4 in the Code for Sustainable Homes. These requirements cover daylight, sunlight, sound transmission, private amenity space(balconies & terraces) and Lifetime Homes. Lifetime Homes is a set of requirements that are designed to enable homes to be flexible enough to accommodate disabled or housebound occupants with the minimum of alterations.

SE 10 Adapting to Climate Change

The Masterplan is designed in accordance with the BREEAM Communities requirements SE 10 Adapting to Climate Change

Aim: To ensure the development is resilient to the known and predicted impacts of climate change.

- 1. Evidence from LA and statutory bodies on known and predicted impacts of climate change
- The masterplan takes account of evidence of impacts and demonstrates in the design how risks will be managed.

The Masterplan is designed in accordance with the BREEAM Communities requirements SE 07 Public Realm

Aim: To encourage social interaction by creating comfortable and vibrant spaces in the public realm.

- 1. Consultation has taken place to understand the activities that the public realm can promote
- 2. The public realm is designed to allow multiple uses for different users
- 3. The design of the public realm takes account of the role it plays in connectivity
- An assessment has been carried out to determine the potential of using some streets as shared street space or homezones
- Where there are appropriate spaces identified plans indicate where those spaces will be developed. Appropriate surfaces and signage will be used to identify these areas

OR.

7. Where shared streets are inappropriate, the

- design shows how space for social interaction has been considered
- Evidence from microclimate studies are used to influence the design of social spaces, benches are located in shaded areas
- 10. The local identity is strengthened through the design of social spaces, informed by consultation.

TM 02 Safe and Appealing Streets

The Masterplan is designed in accordance with the BREEAM Communities requirements TM 02 Safe and Appealing Streets.

Aim: To create safe and appealing spaces that encourages human interaction and a positive sense of place.

- The transport assessment or statement and travel plans are used to inform the objectives for the design of streets.
- A context appraisal is carried out to determine the appropriate layout of streets in relation to existing context
- A movement framework is developed to determine the layout and design of streets that will promote sustainable modes of movement and transport through travel plans
- 5. Street layouts are safe and secure, overlooked and ownership is clear.
- Design measures are incorporated into the masterplan to ensure safety with regard to large vehicles and pedestrian and cycle movement.
 Delivery areas are not accessed through parking areas and do not share pedestrian and cyclist routes.
- 8. The landscape design strategy enhances pedestrian routes through design and the provision of attractive landscaping.
- 9. Pedestrian routes allow easy navigation using key features and existing neighbourhoods.
- 11. Within the developments traffic management plan, targets have been set regarding road traffic accident reduction.
- Potential vehicle noise disturbance and potential visual and vibration disturbance from heavy vehicles mitigated through layout and buffer zones.
- 14. A maintenance contract will be in place for

external areas that are not covered by the local authority for at least five years from occupation.

LE 05 Landscape

The Masterplan is designed in accordance with the BREEAM Communities requirements LE 05 Landscape

Aim: To ensure that the character of the landscape is respected and, where possible, enhanced through the location of features and design appropriate to the local environment.

- The ecologist confirms that the detailed landscape design conforms to the Ecology strategy.
- At least 60% of tree and shrub and herbaceous planting consist of appropriate native species, or other appropriate species recommended by the ecologist.
- 4. A commitment is made to appoint an ecology clerk of works to manage implementation
- Water efficiency is considered in the selection of planting and irrigation and informed by the water strategy in RE-03 Water Strategy.
- 8. At least 80% of tree and shrub and herbaceous planting consist of appropriate native species or species recommended by the ecologist.
- 10. There is a commitment to prepare a landscape maintenance and management plan.
- 11. The proposed landscape design has been developed with reference to the community needs outlined in consultation for SE-07-Public Realm
- 12. Existing landscape features considered important will be preserved in the new development.
- The proposed landscape design has been assessed by an independent design review panel.

SE 11 Green infrastructure

The Masterplan is designed in accordance with the BREEAM Communities requirements SE 11 Green infrastructure

Aim: To ensure access to high quality space in the natural environment and/or urban green infrastructure for all.

- Consultation has taken place to understand the desired uses of green space
- 2. A green infrastructure plan is developed as part

- of the masterplan. A summary of the consultation responses and constraints are explained.
- 4. The masterplan is designed to allow residents to be within walking distance of greenspace via a safe and convenient pedestrian route.
- 5. There is a long-term management strategy in place for greenspace.
- 7. The green infrastructure plan sets out the provision of the desired uses and designs from consultation. Any deviations are justified.

LE 04 Enhancement of Ecological Value

The Masterplan is designed in accordance with the BREEAM Communities requirements LE 04 Enhancement of Ecological Value

Aim: To ensure that the ecological value of the development is maximised through enhancement.

The masterplan enhances ecological value through the creation of appropriate new habitats or through the increase in scale of existing habitats in accordance with the recommendations of the ecologist and other authorities.

SE 10 Adapting to Climate Change

The Masterplan is designed in accordance with the BREEAM Communities requirements SE 10 Adapting to Climate Change

Aim: To ensure the development is resilient to the known and predicted impacts of climate change.

- Evidence has been gathered from LA and statutory bodies on known and predicted impacts of climate change
- The masterplan takes account of evidence of impacts and demonstrates in the design how risks will be managed.

SE 08 Microclimate

The Masterplan is designed in accordance with the BREEAM Communities requirements SE 08 Microclimate

Aim: To ensure the development provides a comfortable outdoor environment through the control of general climatic conditions

- A microclimate simulation shows the effect of urban morphology on the external microclimate. (Refer to Environmental Statement chapter on Microclimate)
- 2. The development is designed to minimise adverse conditions

- 3. The development is designed to increase positive conditions throughout the year
- An appropriate and diverse range of favourable microclimate conditions have been provided throughout the development
- 7. The design of public space optimises microclimate conditions
- 8. The location and design of routes takes account of microclimate conditions

Sustainable Design and Construction, Supplementary Planning Guidance

Section 2.3, Site Layout and Building Design

The design of the site and building layout, footprint, scale and height of buildings as well as the location of land uses should consider:

New design of development:

Potential for incorporating open space, recreation space, child play space

Energy demands and the ability to take advantage of natural systems and low and zero carbon energy sources

Access to low carbon transport modes

Potential to address any local air quality, noise disturbance, flooding and land contamination issues

The First Development Site

The First Development Site is designed to meet the requirements for Code for Sustainable Homes Level 4. This includes an Ecology Strategy to protect any valuable ecology and to improve the ecological value of the site by adding significant green spaces and native planting.

The Energy Strategy document describes the proposals for low carbon buildings, energy efficiency and renewable energy systems.

The proposals also include access to private amenity space for all homes, provate gardens for houses and balconies, courtyard gardens and roof terraces for the apartments.

The description of the proposals for open space, play and recreation space is contained within the Landscape section of the Design and Access Statement.

The Masterplan

The Energy Strategy document describes the proposals for low carbon buildings, energy efficiency and renewable energy systems.

SE 11 Green infrastructure

The Masterplan is designed to meet the requirements for BREEAM Communities Very Good. This includes the requirements for consideration of SE 11 Green infrastructure

Aim: To ensure access to high quality space in the natural environment and/or urban green infrastructure for all.

- 1. Consultation has taken place to understand the desired uses of green space.
- 2. A green infrastructure plan has been developed as part of the masterplan.
- 4. The masterplan has been designed to allow residents to be within walking distance of greenspace via a safe and convenient pedestrian route.
- 5. There will be a long-term management strategy in place for greenspace.

SE 04 Noise Pollution

The Masterplan is designed to meet the requirements for BREEAM Communities Very Good. This includes the requirements for consideration of SE 04 Noise Pollution

Aim: To ensure that the development is designed to mitigate the impacts of noise. This includes mitigation from existing sources of noise, reducing potential noise conflicts between future site occupants, and protecting nearby noise-sensitive areas from noise sources associated with the new development.

- 1. A noise impact assessment has been carried out.
- 2. All noise attenuation measures have been incorporated into the masterplan

SE 03 flood Risk

The Masterplan is designed to meet the requirements for BREEAM Communities Very Good. This includes the requirements for consideration of SE 03 flood Risk

Aim: To ensure that sites and developments take due account of flood risk and, where it is present, take appropriate measures to reduce the risk of flooding to the development and the surrounding areas.

- A site specific flood risk assessment has been carried out.
- 2. The flood zones are determined in accordance with best practice and planning policy
- 3. A commitment is made to incorporate the recommendations of all appropriate statutory bodies into the masterplan

TM 01 Transport Assessment

The Masterplan is designed to meet the requirements for BREEAM Communities Very Good. This includes the requirements for consideration of TM 01 Transport Assessment

Aim: To ensure transport and movement strategies reduce the impact of the development upon the existing transport infrastructure and improve environmental and social sustainability through transport.

- 1. A transport assessment has been developed
- 2. A travel plan coordinator has been appointed to develop travel plans
- A travel plan has been developed outlining the design methods used to encourage sustainable transport
- The transport assessment and travel plans positively influence the development, by reducing the need for car travel and reducing length of trips.

RE 07 Transport CO2 Emissions

The Masterplan is designed to meet the requirements for BREEAM Communities Very Good. This includes the requirements for consideration of RE 07 Transport CO2 Emissions

Aim:To reduce pollution associated with car use and provide viable alternatives to car ownership.

- Feasibility study thas been carried out o establish alternative transport options
- 2. Travel plans for the development have been created
- 4. One alternative means of sustainable transport has been established.
- The sustainable transport options will be well advertised
- Management plans are in place tomonitor use and maintain facilities

SECTION 2.4, ENERGY AND CARBON DIOXIDE EMISSIONS

The overall carbon dioxide emissions from a development should be minimised through the implementation of the energy hierarchy set out in London Plan policy 5.2, 5.3.

Developments should contribute to ensuring resilient energy infrastructure and a reliable energy supply, including from local low and zero carbon sources.

The design of developments should prioritise passive measures.

Developers should aim to achieve Part L2010 Building Regulations requirements through design and energy efficiency alone, as far as is practical.

The First Development Site

The proposals relating to CO2 emissions are described in the Energy Strategy.

The Masterplan

The proposals relating to CO2 emissions are described in the Energy Strategy.

3.0 SUSTAINABILITY STANDARDS

The following sustainability standards have been applied to the design phase of the site. The Code for Sustainable Homes and the BREEAM New Construction Standards will be re-assessed at design and construction phases of the buildings to ensure that these measures are carried out.

View of the First Development Site



3.1 SOUTHWARK SUSTAINABILITY CHECKLIST

Southwark Sustainability Policies
Southwark Sustainable Design and Construction
SPD (2009)

Southwark Sustainability Checklist

The following pages contain the completed Sustainability Checklist.

Detail of the Aylesbury Masterplan



LONDON Borough of Southwark

Sustainability assessment checklist cover sheet

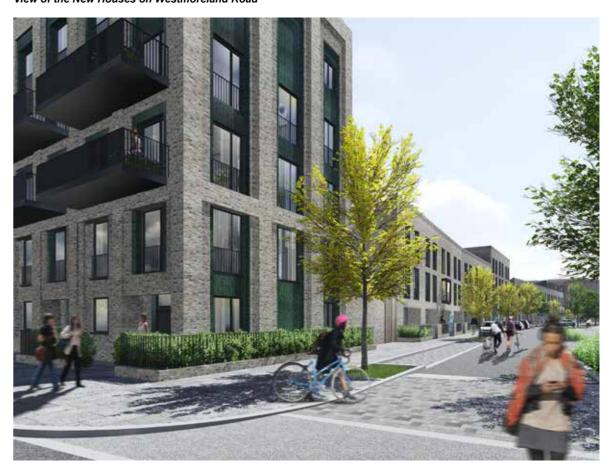
Site address	Aylesbury Estate		
Description of development	815 new homes (first development site)	2733 New Homes (outline)	
Type of application	Full (yes)	Outline (yes)	
Jse class(es) proposed	D1 Community Centre 260m2	A1 Retail 200-500 m2	
nits/ floorspace (m2) proposed by use class		A1,A2 or A4 Retail or B1 workspace 600-3000 m2	
	C2 Extra Care 5,500m2	B1 Employment 600-2500m2	
		D1 Early Years 500-650m2	
		D1 medical Facility 2000-3000m2	
		D1 community 300-600m2	
and the Contribution of the design of the contribution of the design of	YES	Code for Code in his house level to be a skinned	4 - 6
ode for Sustainable Homes design stage assessment completed REEAM pre-assessment completed	BREEAM rating to be achieved	Code for Sustainable homes level to be achieved Very Good	
ame of assessor	Rory Bergin	License number of assessor	HT RB43
ne following assessments have also been completed.	- Kory Bergin	License number of assessor	111 11043
ie following assessments have also been completed.	Environmental Impact Assessment	Yes	
	Design and Access Statements	Yes	
	Flood Risk Assessment	Yes	
	Health Impact Assessment	Not at this stage	
	Equalities Impact Assessment	Not at this stage	
	Energy Assessment	Yes	
	Tree Report	Yes	
	Ecology/Biodiversity Report	Yes	
	Transport Assessment	Yes	
	Green Travel Plan	Yes	
	Site Waste Management Plan	Not at this stage	
	Construction Management Plan	Yes	
	Green Travel Plan	Yes	
	Green Procurement Plan	Not at this stage	
	Buildings for Life Assessment	Not at this stage	
	Air Quality Assessment	Yes	
	Noise Assessment	Yes	
	Other (please specify)	BREEAM Communities Assessment	

Sustainability issues	Minimum standard	Preferred standard	Comment
Safety and security	The development month Convert his	The development will abtain Convey	The development will make Commed
Will new development be safe and secure?	The development meets Secured by Design principles.	The development will obtain Secured by Design Certification.	The development will meet Secured by Design Principles
securer	Design principies.	by Design Certification.	by Design Principles
Information and communications technology			
Will proposed dwellings increase		All proposed dwellings have fibre	YES
access to the internet and promote		optic termination	
ICT?			
Pre-application consultation			
Has the local community been		Consultation has been carried out	Yes, consultation is ongoing
consulted at pre-application stage?		with the local community and other	
		stakeholders at pre-application stage.	
Parking for people with disabilities			
Will the proposal provide adequate	Will the proposal provide adequate and		YES, this is described in the Statement of
and convenient parking for people	convenient parking for people with		Community Involvement
with disabilities?	disabilities?		
Accessibility			
Will people with disabilities, parents			YES
with pushchairs, the elderly and			
infirm find it easy to move around the			
development?			
Transport impacts			
The proposal is located in an	The proposal is located in an		A financial contribution to TFL to allow upgrades to
appropriate location for its size and tripgenerating	appropriate location for its size and tripgenerating		bus services will be paid.
characteristics.	characteristics.		A Green travel Plan will be prepared. Cycle storage
Any harmful transport impacts are	Any harmful transport impacts are		is designed into the buildings and cycle routes are
mitigated, including through preparing	mitigated, including through preparing		integrated into the street design.
a green travel plan and site specific s106	a green travel plan and site specific s106		
planning obligations.	planning obligations.		

Sustainability issues	Minimum standard	Preferred standard	Comment
		·	
Community facilities	The proposal will not create a deficiency in access to community facilities. The proposal makes the minimum		New community centres provided as part of the first development (1) site and the masterplan (1)
How will the proposal contribute towards meeting the local needs for community space?	financial contribution towards community facilities as set out in the S106 Planning Obligations SPD.	The proposal directly improves access to high quality community facilities for a range of users.	
High quality living and working environments			
Will the proposed dwellings have good standards of daylight and sunlight?	The application meets the daylight and sunlight requirements set out in the Residential Design SPD.	The application meets the daylight and sunlight requirements set out in the Residential Design SPD.	Analysis is presented in the Daylight, Sunlight and Overshadowing chapter of the Environmental Statement
How will the development affect the sunlight/daylight of existing neighbouring occupiers?	The application meets the BRE recommended standards for daylight and sunlight access.		Analysis is presented in the Daylight, Sunlight and Overshadowing chapter of the Environmental Statement
How has the impact from sources of noise been minimised through site layout and landscaping? Will all proposed buildings have good sound insulation?	he minimum standards in the Sustainable Design and Construction SPD are met.	The preferred standards in the Sustainable Design and Construction SPD are met.	Analysis is presented in the Noise and Vibration chapter of the Environmental Statement.
How will proposed commercial or non-residential development help promote the health and well-being of future occupiers?		The development achieves at least 55% of the credits available in the health and well-being section of the appropriate BREEAM assessment	The non-residential elements will be assessed under BREEAM new construction 2011 and achieve a minimum score of Very Good. Please refer to the Pre-Assessment in the Sustainability Statement.
Are internal layouts flexible and capable of adaptation and multiple uses during their lifetime?			There is provision or flexible workspaces and non- market units for social enterprises in the masterplan. All residential units are designed to the Lifetime Homes standard which incorporates some flexibility in the construction of dwellings to cope with disabled or ill residents. The design of units on Thurlow Street is intended to allow for flexibility and potential changes of use to commercial space.
Adapting to climate change How will the indoor comfort of users	The minimum standards in the	The preferred standards in the	Ann overheating study has been carried out and is

How will the indoor comfort of users	The minimum standards in the	The preferred standards in the	Ann overheating study has been carried out and is
be maintained in a changing climate?	Sustainable Design and Construction	Sustainable Design and Construction	referred to in the Energy Strategy.
	SPD are met.	SPD are met.	
Sustainability issues	Minimum standard	Preferred standard	Comment
Housing Tenure Is there a tenure mix that reflects the	The application mosts the minimum		The design reflects the requirements set out in the
needs of the local community?	The application meets the minimum requirements set out in Southwark Plan		AAP
Will the proposal promote the	policy 4.4 and Affordable Housing SPD.		AAP
creation of mixed communities?	policy 4.4 and Anordable Housing SPD.		
creation of mixed communities:			
Dwelling mix			
Is there an accommodation mix that	The application meets the minimum	The proposal provides a dwelling mix	The design reflects the requirements set out in the
reflects the needs and aspirations of	requirements set out in Southwark Plan	which fully reflects housing needs in	AAP
the local community?	policy 4.3.	Southwark, including a significant	
Will the proposal provide wheelchair		proportion of family sized housing.	All dwellings have been designed to meet South
housing?		All dwellings meet wheelchair	East London Housing Partnership guidelines
		accessibility standards.	
Lifetime homes			
Will the proposed homes meet	All dwellings meet lifetime homes		YES
Lifetime Homes Standards?	standards.		
Amenity space			
Will the proposed homes have a	All 3 bed houses have access to at least		Private amenity space meets the London Plan
good standard of amenity space,	50sqm of private amenity space; all 3		requirements
including private amenity space?	bed flats have access to at least 10sqm	All 3 bed houses have access to at	
	of private amenity space; all 1 and 2	least 50sqm of private amenity space;	
	bed flats have access to at least 50sqm	all dwellings have access to at least	
	of communal amenity space.	10sqm of private amenity space.	
Open space and play facilities			
Will the proposed homes have good	On-site play space is provided in		
access to public open space and play	accordance with the Residential Design		
space?	Standards SPD.		
·	If this is not feasible, the development		
	makes a financial contribution in line		
	with s106 SPD.		
	Open spaces have management and		
	maintonanco plane in placo		

View of the New Houses on Westmoreland Road



Southwark sustainability checklist

Sustainability issues	Minimum standard	Preferred standard	Comment
Minimising car use			
	The proposal provides the minimum		The design reflects the requirements set out in the
	number of car parking spaces needed		AAP, (0.35 spaces for social housing per dwelling
	to ensure that the development can		0.4 spaces for private sale units per dwelling)
	operate successfully, in accordance with		
	the Sustainable Transport SPD.		
	The proposal makes a contribution		
	towards strategic transport		
	improvements in line with the s106		
How will the proposal discourage	Planning Obligations SPD.		
car use and encourage people to use	The proposal provides a green travel		
sustainable modes of transport, such	plan which promotes sustainable travel		
as walking and cycling and public	in accordance with the Sustainable		
transport?	Transport SPD.		
Cycling			
How will the proposal make good	There is provision of convenient, secure	The proposal provides a significantly	2 cycle places proposed for all 3Bed and larger
provision for cyclists?	and weatherproof cycle parking to the	greater amount of convenient, secure	homes, 1 cycle place for smaller units
	minimum cycle parking standards set	and weatherproof cycle parking	
	out in Southwark Plan Appendix 15	spaces than the minimum.	
	and the Sustainable Transport SPD. This	The proposal creates or contributes	
	includes providing showers and lockers.	towards more direct, safe and secure	
		cycling routes.	
Health and well-being			
How will the proposal contribute to	The proposal makes the minimum		Medical centre and pharmacy provided as part of
the health and well-being of the local	financial contribution towards health as	The proposal directly improves access	the development on plot 18.
community and overcome health	set out in the S106 Planning Obligations	to high quality health and social care	
inequalities?	SPD.	for the local community.	

Sustainability issues	Minimum standard	Preferred standard	Comment
Nuisance			
How will the proposal minimise nuisance and inconvenience during the construction process?	The proposal meets the minimum construction management standards in the Sustainable Design and Construction SPD.	The developer signs up to the Considerate Contractors Scheme.	Developer/contractors of elements of the masterplan will be required to sign up to the considerate Constructors Scheme.
Urban design and architecture			
Is the proposal of high quality architecture? How does the proposal relate to buildings and spaces around the development site? How does it contribute to the character and distinctiveness of the area?	A Design and Access Statement is submitted which meets the minimum requirements set out in Design and Access Statements SPD	The design and access statement addresses shows that both the minimum requirements and best practice set out in the Design and Access Statements SPD has been met.	The urban design and architecture meets the aspiration set out in the AAP. For a full description please refer to the Design and Access Statement.
The historic environment			
How will the proposal preserve or enhance the historic environment?	The proposal will not harm the historic environment, and meets Southwark Plan policies 3.15 - 3.19.	The proposal will enhance the historic environment, including repair, renovate or refurbish a listed building currently at risk.	The design replaces a poor quality housing estate, there are no buildings of historic quality within the area of the masterplan or the first development site. Where the site is close to existing streets of strong character and identity the scale and design of the proposals is sympathetic to these. Please refer to the Design and Access Statement for further details.

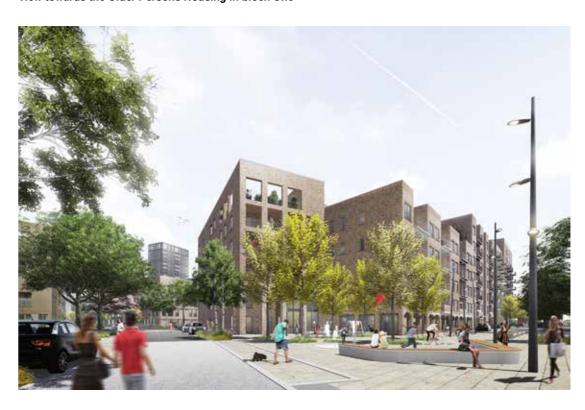
Views towards Blocks One and Six of the first Development Site



Sustainability issues	Minimum standard	Preferred standard	Comment
Employment			
How will the proposal help reduce the skills gap and improve employment opportunities for Southwark residents?	There is no loss in the number of jobs provided on the site (unless an exception is allowed by Southwark Plan policies). Contributions made towards employment, training and education as set out in the s106 Planning Obligations SPD.	The development increases the number and range of jobs available and exceeds the minimum contributions in the s106 Planning Obligations SPD, such as contributing to childcare facilities, providing a work placement or a mentoring agreement with local schools, and/ or programmes to engage social housing tenants with employment and skills support.	New employment opportunities are created through the construction activities and through th non-domestic provision within the development. Refer to credits SES 01 Economic Impact Study and SE 17 Labour and Skills in the BREEAM Communities Standard.
Enterprise			
How will the proposal impact on local businesses? How will the proposal encourage the growth of small and medium sized enterprises (SMEs) and an entrepreneurial culture?	There is not a let loss of business floorspace or small business units (unless an exception is allowed by Southwark Plan policies).	The proposal improves the amount and range of good quality business floorspace, including affordable/ flexible business space suitable for SMEs and start up businesses. The development provides additional benefits for businesses. This could include the provision of business advice and support to local businesses, relocation assistance for existing businesses, and a commitment to procure goods and services during the construction phase of development from companies and organisations based in Southwark, based on a percentage of the total value of the contract. The proposal supports	Each unit is Code for Sustainable Homes Compliant including the provision of a Homes Office. 3600 m2 of retail/office space is being provided within the development. Refer to credits SES 01 Economic Impact Study and SE 17 Labour and Skills in the BREEAM Communities Standard.
If the development is for a town centre use and will generate a lot of trips, is it located in a town or local centre?	The proposal is located within a centre, or it meets the exceptions set out in PPS6 and the Southwark Plan policy 1.8.	The proposal supports The proposal is located within a centre.	

Sustainability issues	Minimum standard	Preferred standard	Comment
Open space and green infrastructure			
How will the proposal contribute	There is not net loss of publicly	There is a net gain of public open	There is no net gain of public open space
to Southwark's network of green	accessible open space. The proposal	space.	
spaces, particularly in those areas	complies with Southwark Plan policies	The proposal directly improves	
which are currently deficient?	3.25, 3.26 and 3.27 protecting open	access to a range of quality public	
	spaces.	open spaces and/or makes a direct	
	The proposal makes a s106 contribution	contribution to improving green links	
	towards open spaces in line with the s106 planning obligations SPD.	and corridors.	
	S100 planning obligations 3PD.		
Biodiversity			
How will the development contribute	The proposal meets the minimum	The proposal meets the preferred	Please refer to the Ecology and Nature
to nature conservation and	biodiversity standards set out in the	biodiversity standards set out in the	Conservation chapter of the Environmental
biodiversity?	Sustainable Design and Construction	Sustainable Design and Construction	Statement
	SPD.	SPD.	
Land contamination			
Will the proposal remediate any			Please refer to LE 02 Land Use issue of the BREEAM
contaminated land on the application	Any contaminated land on the site will		Communities Standard
site?	be remediated to an acceptable level.		
Artificial lighting			
Has artificial lighting been designed			Please refer to Credits ENE6 of the Code for
and selected to reduce light pollution	External lighting meets the minimum		Sustainable Homes
and nuisance, including reflection	standards set out in the Sustainable		
into the night sky?	Design and Construction SPD.		
How will the design of the proposed	The proposal meets the minimum	The proposal meets the preferred	Please refer to the SE 16 Light Pollution issue in the
development minimise the use of	energy efficiency standards in the	energy efficiency standards in the	BREEAM Communities Standard
energy?	Sustainable Design and Construction	Sustainable Design and Construction	
	SPD or an area based plan.	SPD or an area based plan.	
Clean source of energy			
Will the proposal be supplied by a	The proposal meets the minimum	The proposal meets the preferred	A Combined Heat and Power system and a heat
clean and efficient source of energy?	energy supply standards in the	energy supply standards in the	network supplying hot water to the development
0,	Sustainable Design and Construction	Sustainable Design and Construction	will be supplied in an energy Centre for the first
	SPD or an area based plan.	SPD or an area based plan.	Develpoment site. For further detail please refer to
			the Energy Strategy

View towards the Older Persons Housing in block One



Southwark sustainability checklist

Sustainability issues	Minimum standard	Preferred standard	Comment
Air quality			
How will the proposal impact on air	The proposal meets the minimum	The proposal meets the minimum	Please refer to the Local Air Quality asssessemnt in
quality?	air quality standards set out in the	air quality standards set out in the	the Environmental Statement.
How will the proposal ensure a good	Sustainable Design and Construction	Sustainable Design and Construction	the Environmental Statement.
	SPD.	SPD.	
level of indoor air quality?	SPD.	3ru.	
Risk from flooding			
	The development passes the PPS25		Please refer to the Flood Riskk Assessment
	Sequential and Exceptions tests and	The development meets the preferred	
How has the development minimised	meets the minimum flood risk design	flood risk standards as set out in the	
the risk to property and life from	standards set out in the Sustainable	Sustainable Design and Construction	
flooding?	Design and Construction SPD.	SPD.	
		The development meets the preferred	Please refer to the Water Resources, Water
How does the development help	The development meets the minimum	drainage and run-off standards set	Quality, flood risk and Drainage chapter of the
reduce the risk of flooding, including	drainage and run-off standards set	out in the Sustainable Design and	Environmental Statement.
reducing surface water run-off from	out in the Sustainable Design and	Construction SPD or an area based	
the site?	Construction SPD or an area based plan.	plan.	
Materials			
How will the proposal reduce the	The development achieves the minimum	The development achieves the	Please refer to Credits Mat 1,2 & 3 of the Code for
environmental impact of materials	materials standards set out in the	preferred materials standards set	Sustainable Homes Pre-Assessment.
used and will the materials be	Sustainable Design and Construction	out in the Sustainable Design and	
obtained from a responsible source?	SPD.	Construction SPD.	

Sustainability issues	Minimum standard	Preferred standard	Comment
Town centres and local services			
How will the proposal support the	The proposal meets the criteria of	The development improves the local	The design provides improved pedestrian and cycle
vitality and viability of Southwark's	Southwark Plan policies 1.7, 1.9 and	community's access to a range of	access to Walworth road and Old Kent Road
town centres?	1.10.	shopping and services.	
How will the proposal support access	The proposal will not involve the loss	A proportion of proposed retail	The proposals include improved public transport
to local shopping and services?	of any small business units (unless an	units are provided for independent	provision.
How will the proposal promote	exception is allowed by Southwark Plan	occupiers through a s106 planning	
a diversity of shops including	policy 1.6).	obligation.	The masterplan provides new retail opportunities
independent shops?	The proposal would not harm the	The development contributes to an	including startup units and workspaces.
	amenities of any neighbouring	improved shopping environment,	
	occupiers.	such as through shop front	
	The proposal meets the minimum	improvements, access and/or safety	
	public realm contributions of the S106	improvements. , over and above	
	Planning Obligations SPD.	what is required in the	
Arts, culture and tourism			
How will the proposal support	Development meets the requirements of	In addition to the minimum	The community space provision in the first
regeneration and wealth creation	Southwark Plan Policy 1.11.	standards, the development helps	Development Site and in the Masterplan can be
through the arts, culture and	Visitor generating schemes provide	support local arts, culture and	used for local arts group meetings and exhibitions.
tourism?	and implement a visitor management	tourism activity, including the	
How will the impacts of tourism be	strategy.	provision of accessible and affordable	
carefully managed?		studio and exhibition space.	
Using land efficiently	Efficient use of land		
Will the proposal use land efficiently	The proposal is on brownfield land.		The development provides the following denisties:
and in a way which is compatible	The density of the proposal is in line		• FDS (815 units (2648 Hab Rooms) on 4.4 ha = 185
with the local context?	with the densities set out in Southwark		units/ ha; 602 HR/ ha
	Plan policies 3.11 and 4.1 and the		
	proposal meets the criteria of policy		Masterplan = 2733 units (10,513 Hab Rooms) on
	3.11.		22.1 ha = 124 units/ ha; 475 HR/ha

Detail of the Aylesbury First Development site from Burgess Park



Sustainability issues	Minimum standard	Preferred standard	Comment
Renewable energy			
Will the proposal use on-site	The proposal meets the minimum	The proposal meets the preferred	Please refer to the Energy Strategy
renewable technologies?	renewable energy standards in the	renewable energy standards in the	
	Sustainable Design and Construction	Sustainable Design and Construction	
	SPD or an area based plan.	SPD or an area based plan.	
Reducing greenhouse gas emissions			
How will the proposed development	The proposal meets the minimum CO2	The proposal meets the preferred	Please refer to the Energy Strategy and Code for
minimise the greenhouse gas	reduction target in the Sustainable	CO2 reduction target in the	Sustainable Homes Pre-Assessment
emissions generated?	Design and Construction SPD or an area	Sustainable Design and Construction	
	based plan.	SPD or an area based plan.	
Water			
How will the proposal minimise water	The proposal meets the minimum water	The proposal meets the preferred	Please refer to the WAT1 & 2 Credits of the Code
consumption and reliance on mains	use standards in the Sustainable Design	water use target in the Sustainable	for Sustaianble Homes Pre-Assessment and item RE
water?	and Construction SPD or an area based	Design and Construction SPD or an	03 of the BREEAM Communities Standard
	plan.	area based plan.	
Waste and resources			
How will the proposal minimise the	The proposal meets the minimum	The proposal meets the preferred	Please refer to the WAS 2 Credit in the Code for
materials needed in construction and	construction waste standards as set	construction waste standards as set	Sustainable Homes Pre-Assessment and the RE 02
the amount of demolition, excavation	out in the Sustainable Design and	out in the Sustainable Design and	and RE 05 credits in the BREEAM Communities
and construction waste sent to	Construction SPD.	Construction SPD.	Standard
landfill?			
How will the development promote	The proposal meets the operational	The proposal meets the preferred	Please refer to the WAS 1 and 3 credits in the Code
waste minimisation during its use?	waste standards set out in the	operational waste standards set	for Sustainable Homes
	Sustainable Design and Construction	out in the Sustainable Design and	
	SPD.	Construction SPD.	

Detail of the Aylesbury Masterplan showing the Green Edge to Burgess Park



3.2 SUSTAINABILTY STANDARDS **BREEAM COMMUNITIES**

BREEAM Communities is a sustainability standard for masterplanning developed by the BRE as the first high level tool in their suite of sustainability standards. BREEAM Communities is an assessment method that provides a way to improve, measure and certify the social, environmental and economic sustainability of large scale development plans by integrating sustainable design into the masterplanning process.

- The assessment process takes place during the design and planning stages. It provides a framework for the developer, local authority and master planning professionals to work within, ensuring that sustainability is considered at the earliest stages – where the potential to achieve cost effective benefits are greatest.
- For UK assessments, the scheme has been designed to align with the current UK planning process, with all core planning principles found within national planning policy.

BREEAM Communities provides thirdparty certification that is designed to ensure independence, credibility and consistency. This supports;

- Stakeholder buy in, marketing activities and PR for the development and associated stakeholders
- The communication of the sustainability achievements and benefits of the site and enables international comparability
- A flexible approach, enabling phased certification of developments to account for long timescales and different ownership
- Higher ratings for building level assessments as a result of realising additional sustainability opportunities at this earlier stage and on a wider scale.

HTA's sustainability team, HTA Sustainable Futures are licensed assessors for this scheme and have used the standard successfully elsewhere in the UK.

The scheme is assessed in two stages; the first stage (Step 1) is an appraisal whether the project is meeting the requirements of the standard in terms of the Strategies for the project. This results in a certification that states that the project is in line with the goals of the standard, but doesn't provide a

rating. This is appropriate for the Masterplan.

The second stage (Steps 2&3) is confirmation that the standard is being met in terms of the detail of the design and that the strategies presented in Step 1 are being implemented. This stage provides a certification and a rating. This is an appropriate tool for the First Development Site

The BREEAM Communities standard is achieved by providing evidence that defined steps and processes have been undertaken in the design process, decision-making or completed designs that the requirements of the standard have been met. The following text describes each of the 40 issues covered by the standard and the design teams approach to certification. Only the elements that are currently achieved are described. Elements of the standard that are not achieved are not described.

View of the First Development Site from Burgess Park



BREEAM Communities Credits



Identifier	Issue name	Responsibility	Have mandatory standards been met?	Credits assumed	Credits available	% of credits achieved	Issue weighting	Issue score	Category score
Governanc	e								
GO 01	Consultation plan	Client	Yes	1	1	100%	2.3	2.32	
GO 02	Consultation and engagement	Client (consultation team)	Yes	1	2	50%	3.5	1.74	6.4
GO 03	Design review	Architect	N/A	2	2	100%	2.3	2.32	0.4
GO 04	Community management of facilities	Client	N/A	0	3	0%	1.2	0.00	
Social and	economic wellbeing - Local economy								
SE 01	Economic impact	Client	Yes	2	2	100%	8.9	8.88	10.8
SE 17	Labour and skills	Client (Contractor)	N/A	1	3	33%	5.9	1.97	10.8
Social and	economic wellbeing - Environmental conditions			-	•				
SE 03	Flood risk assessment	Engineering	Yes	2	2	100%	1.8	1.80	
SE 04	Noise pollution	Engineering	Yes	1	3	33%	1.8	0.60	
SE 08	Microclimate	Engineering	N/A	3	3	100%	1.8	1.80	8.4
SE 10	Adapting to climate change	Architect	N/A	3	3	100%	2.7	2.70	6.4
SE 13	Flood risk management	Engineering	N/A	2	3	67%	1.8	1.20	
SE 16	Light pollution	Engineering	N/A	1	3	33%	0.9	0.30	
Social and	economic wellbeing - Social wellbeing	•	•	•					
SE 02	Demographic needs and priorities	Client	Yes	1	1	100%	2.7	2.70	
SE 05	Housing provision	Client	N/A	1	2	50%	2.7	1.35	
SE 06	Delivery of services, facilities and amenities	Architect	N/A	3	7	43%	2.7	1.16	
SE 07	Public realm	Architect (Landscape Architect/Urban Design)	N/A	2	2	100%	2.7	2.70	
SE 09	Utilities	Engineering	N/A	1	3	33%	0.9	0.30	10.5
SE 11	Green infrastructure	Landscape Architect	N/A	2	4	50%	1.8	0.90	
SE 12	Local parking	Architect	N/A	1	1	100%	0.9	0.90	
SE 14	Local vernacular	Architect	N/A	1	2	50%	0.9	0.45	
SE 15	Inclusive design	Architect	N/A	0	3	0%	1.8	0.00	
Resources	and energy								
RE 01	Energy strategy	Engineering (energy)	Yes	3	11	27%	4.1	1.11	
RE 02	Existing buildings and infrastructure	Architect	Yes	2	2	100%	2.7	2.70	
RE 03	Water strategy	Engineering (water)	Yes	1	1	100%	2.7	2.70	
RE 04	Sustainable buildings	Architect	N/A	4	6	67%	4.1	2.70	15.3
	Low impact materials	Architect	N/A	3	6	50%	2.7	1.35	
	Resource efficiency	Architect	N/A	3	4	75%	2.7	2.03	
	Transport carbon emissions	Engineering (transport)	N/A	1	1	100%	2.7	2.70	
Land use ar	•	1 0 0(· ·						
	Ecology strategy	Landscape Architect (ecologist)	Yes	1	1	100%	3.1	3.15	
	Land use	Architect (Landscape Architect/Urban Design)	Yes	1	3	33%	2.1	0.70	
	Water pollution	Engineering (water)	N/A	2	3	67%	1.0	0.70	
	Enhancement of ecological value	Landscape Architect (ecologist)	N/A	1	3	33%	3.1	1.05	7.7
	Landscape	Landscape Architect	N/A	5	5	100%	2.1	2.10	
	Rainwater harvesting	Landscape Architect (ecologist)	N/A	0	3	0%	1.0	0.00	
	and movement	1	1	-					
TM 01	Transport assessment	Engineering (transport)	Yes	1	2	50%	3.2	1.59	
	Safe and appealing streets	Architect (Landscape Architect/Urban Design)	N/A	4	4	100%	3.2	3.18	
	Cycling network	Architect (Landscape Architect/Urban Design)	N/A	1	1	100%	2.1	2.12	
TM 04	Access to public transport	Architect	N/A	2	4	50%	2.1	1.06	10.1
TM 05	Cycling facilities	Architect (Landscape Architect/Urban Design)	N/A	2	2	100%	1.1	1.06	
	Public transport facilities	Engineering (transport)	N/A	1	2	50%	2.1	1.06	
Innovation		engineering (unisport)	11/7	1		30/0	4.1	1.00	
	Innovation	I	N/A	0	7	0%	7.0	0.00	0.0

BREEAM Rating VERY GOOD

AYLESBURY REGENERATION

	BREEAM Communities Credits	Client					G	ita
	ndatory elements are assessed on Step 1 before plann led in the prediction.	ing is submitted, all others are asse	essed in Step 2	after planr	ning is subm	nitted. Eleme	nts in bracket	ts are not
Version	1.0	29/08/2014	Rory Bergin					
Identifier	Issue name	Responsibility	Have mandatory standards been met?	Credits assumed	Credits available	% of credits achieved	Issue weighting	Issue score
Governance GO 01	Consultation plan Aim: To ensure the needs, ideas and knowledge of th the quality and acceptability of the development thre construction process. I. Members of community and stakeholders have be- 2. Agreed Consultation Plan in place 3. Minimum consultation content is covered 4. A facilitated consultation method will be used to edesign	oughout the design and en identified for consultation	Yes Progress: The client has the requirem All issues are	ents of BRE	EAM Comm	unities.		2.32 en briefed on
GO 02	Consultation and engagement Aim: To ensure the needs, ideas and knowledge of th the quality and acceptability of the development thro 1. The consultation plan is followed 2. Good practice consultation methods are used		Yes	1	2	50%	3.5	1.74
	 Feedback is provided to the consultation group The influence of consultation on the design can be A design workshop is used as part of the commun credit 	ity and stakeholder process) extra						
B GO 04	Community management of facilities Aim: To support communities in active involvement is owning selected facilities. (1. Community facilities developed during constructio project completion) extra credit 2. Training and manuals provided to responsible part (4 The developer agrees to provide significant suppor manage the implementation phase of a facility) extra (6. The developer agrees to the development of a CD credit	on phase and handed over at ies t to a community group or trust to credit	N/A	0	3	0%	1.2	0.00
Social and ecor	omic wellbeing - Local economy Economic impact	Client	Yes	2	2	100%	8.9	8.88
	Aim: To increase economic wellbeing in the wider are development attracts inward investment, creates job existing economic activity in the local area. 1. A compliant economic Study is completed. 3. There will be no net reduction in employment as a 4. The infrastructure and facilities in the proposal will existing businesses 5. The economic study includes a skills gap analysis for 7. The development will have a positive net gain on e 8. Opportunities to attract inward investments to the development proposal.	s and complements and enhances result of the development contribute and complement or the local area. mployment in the area.						
SE 17	Labour and skills	Client (Contractor)	N/A	1	3	33%	5.9	1.97
	Aim.To ensure that the development contributes to to diversifying or adding skills and training opportunities. 1. The developer consults with the community and st training initiatives beneficial to the local area. related (3. The development will support and promote training lanning/construction phase. 4. the training provided aligns with those identified in (6.The developer will partner with a training provider. 7. The local training will align with those identified in committee the control of the control o	s. akeholders to identify skills and l to SE02 ng/apprenticeships during n consultation) extra credit to promote local training						
Social and ecor	nomic wellbeing - Social wellbeing	I-e.						
	Demographic needs and priorities Aim: To ensure that the development plans for the pi facilities and amenities on the basis of local demogra 1. The scope of the development has been informed profiles and future trends. 2. The community is consulted on the local needs and 4. Where the provision of some of these are outside I long term impact has been assessed and a suitable m been created	phic trends and priorities. by a review of the demographic d priorities the scope of the development, the echanism for their delivery has	Yes	1	1	100%	2.7	2.70
	Housing provision Aim:To minimise social inequalities and foster a socia ensuring appropriate housing provision within the de 1. The housing type and tenure is based on the needs 2. The developer and LA agree on specific targets for and intermediate housing on the site 3. The developer commits to achieving minimum spa 5. The proposed affordable units are distributed acro integrated with the other dwellings in terms of design (7. Suitable financial models are established so that d and that affordable units will be available to meet fut credit energy	velopment. of the local area (SE02) the number of affordable, social se standards ss the development and in sipplication is the second of the	N/A	1	2	50%	2.7	1.35
Land use and e Transport and	cology							
Innovation	Innovation		N/A	0	7	0.0		0.00 BREEAM Score REEAM Rating

	BREEAM Communities Credits	Design Team					h	a
Identifier	Issue name	Responsibility		Credits ssumed	Credits available	% of credits achieved	Issue weighting	Issue
Governanc		A robito ot	N/A	2	2	1009/	1 22	1
GO 03	Design review Aim: To ensure that the masterplan's design supports	Architect a vibrant, healthy, functional and inclusive	N/A There will be a fo	2 older with	2 all the DRI	100% P informati	2.3 on in it for ref	erence.
	development.							
	 A consultation process is used to inform the develor- character and identityetc 	pment of the design. The Issues include						
	The opinions gathered have been taken into account	nt.						
	Feedback is given to participants.							
	An independent and inter-disciplinary panel has be development	en used to undertake a design review of the						
	7. Improvements have been made to the design of th	e development as a result of the design review.						
	economic wellbeing - Local economy economic wellbeing - Environmental conditions							
SE 10	Adapting to climate change	Architect	N/A	3	3	100%	2.7	2
	Aim: To ensure the development is resilient to the kn 1. Evidence from LA and statutory bodies on known a		Elisabetta to obta microclimate, wir			e files for a	issessment of	future
	The masterplan takes account of evidence of impact.		Trees and other p			e change r	esistant.	
	be managed.	and the state of all and a state of the stat	Rain gardens to d	deal wth ra	ainwater			
	(4. The masterplan takes account of evidence of the in risks will be reduced) extra credit	ripacts of climate change and demonstrates now	FIOOU KISK					
	(6. The masterplan takes account of the evidence of it							
	risks will be reduced through 'win-win' measures) ext	ra credit						
	economic wellbeing - Social wellbeing				_	404/		
	Delivery of services, facilities and amenities Aim: To ensure essential facilities are provided and th	Architect at they are located within a reasonable and safe	N/A AAP consultation	3	7	43%	2.7	1
	walking distance.		Retail meeting wi	ith the cou	uncil			
	1.List of local requirements from SE02 are used to dei 2. These are confirmed through a planning agreemen		Plot 18 Ana Mcmillian no	otes on me	eting RF r	olot 18		
	The local priority needs are incorporated		Extra Care and co				h centre	
	5. These are located within walking distance	aratad	Giving space for h	hte existin	g shoppin	g street We	estmoreland s	quare
	 The local needs which are high priorities are incorp These are located within walking distance 	orateu						
	(10. The local low priority needs have been incorpora							
	 These are within walking distance) Three extra cree Funding available to take over the operation of the 							
	completed.							
	 The management agrees to a monitoring process the needs of the local community) One extra credit 	to review the performance of services in meeting						
		Architect (Landscape Architect/Urban Design)	N/A	2	2	100%	2.7	2
	Aim: To encourage social interaction by creating com		Soundings consul			outputs fro	om workshops	, Christ
	 Consultation has taken place to understand the act The public realm is designed to allow multiple uses 		and Miriam from Reproviding com			ces		
	3. The design of the public realm takes account of the	role it plays in connectivity	Friends of Burges	ss park				
	 An assessment is carried out to determine the pote or homezones 	ential of using some streets as shared street space	Possible to achiev Ana	ve 9 and 1	0			
	6. Where there are appropriate spaces identified plan		School Square					
	Appropriate surfaces and signage will be used to iden OR, 7. where shared streets are inappropriate, the de							
	been considered							
	Evidence from microclimate studies are used to inf	luence the design of social spaces, benches are						
	located in chaded areas							
	located in shaded areas 10. The local identity is strengthened through the des	ign of social spaces, informed by consultation						
	1	ign of social spaces, informed by consultation						
	10. The local identity is strengthened through the des		N/A	3	3	100%	ı	0
SE 08	1	Architect (Sustainability)	N/A Elisabetta to do a	3 detailed	3 assessmer	100% nt of the mi	croclimate of	
SE 08	The local identity is strengthened through the des Microclimate Aim: To ensure the development provides a comforta general climatic conditions	Architect (Sustainability) ble outdoor environment through the control of		3 detailed	3 assessmen		croclimate of	
SE 08	10. The local identity is strengthened through the des Microclimate Aim: To ensure the development provides a comforta	Architect (Sustainability) ble outdoor environment through the control of n morphology on the external microclimate	Elisabetta to do a	3 detailed	3 assessmen		croclimate of	
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SE 18	10. The local identity is strengthened through the design of the control of the c	Architect (Sustainability) ble outdoor environment through the control of n morphology on the external microclimate conditions conditions throughout the year) extra credit croclimate conditions have been provided conditions microclimate conditions) extra credit Landscape Architect ural environment and/or urban green sired uses of green space the masterplan. A summary of the consultation e within walking distance of greenspace via a safe for greenspace n of the desired uses and designs from tandard is achieved) extra credit Architect d users and well integrated into the development. A, highways and community stakeholders on level of parking that promotes sustainable d dominating the space, or interfering with cyclist,	N/A AAP layout we ha stakeholders Retention of exis Mainly with Nott There will be a m N/A Study on car own parking layouts fe illustrative maste	2 ave deviate ting trees, ing Hill haintenance	4 ed from it se plan sub	t of the mi 50% Walkabou omitted wit	1.8 ts with local p h application	particu 0 eople a
SE 08	Microclimate Aim: To ensure the development provides a comforta general climatic conditions 1. A microclimate a minimate simulation shows the effect of urba 2. The development is designed to minimise adverse. (4. The development is designed to minimise adverse. (5. An appropriate and diverse range of favourable m throughout the development is routed favourable m throughout the development. 7. The design of public space optimises microclimate. 8. The location and design of routes takes account of design of public space optimises microclimate. Aim: To ensure access to high quality space in the nat infrastructure for all. 1. Consultation has taken place to understand the de. 2. A green infrastructure plan is developed as part of responses and constraints are explained. 4. The masterplan is designed to allow residents to be and convenient pedestrian route. 5. There is a long-term management strategy in place (7. The green infrastructure plan sets out the provisio consultation. Any deviations are justified. 8. In urban areas the accessible natural green space is Local parking. Aim: To ensure parking is appropriate for the expected. 1. Consultation has taken place between developer, I parking and transport needs. 2. The results have been assessed and an appropriate transport choices has been agreed. 3. Parking is integrated into the development without pedestrian or car movement. 5. Residential parking is located behind, under above front curtilage.	Architect (Sustainability) ble outdoor environment through the control of n morphology on the external microclimate conditions conditions throughout the year) extra credit circoclimate conditions have been provided conditions microclimate conditions) extra credit Landscape Architect ural environment and/or urban green sired uses of green space the masterplan. A summary of the consultation e within walking distance of greenspace via a safe for greenspace n of the desired uses and designs from tandard is achieved) extra credit Architect d users and well integrated into the development. A, highways and community stakeholders on level of parking that promotes sustainable c dominating the space, or interfering with cyclist, or to the side of buildings as opposed to within the	N/A AAP layout we ha stakeholders Retention of exis Mainly with Nott There will be a m N/A Study on car own parking layouts fe illustrative maste	2 ave deviate ting trees, ing Hill haintenance	4 ed from it se plan sub	t of the mi 50% Walkabou omitted wit	1.8 ts with local p h application	particul 0 0eople a
SE 18	Microclimate Alm: To ensure the development provides a comforta general climatic conditions 1. A microclimate simulation shows the effect of urba 2. The development is designed to minimise adverse. (4. The development is designed to increase positive: (6. An appropriate and diverse range of favourable m throughout the development of the development. The design of public space optimises microclimate. 3. The design of public space optimises microclimate. 3. The location and design of routes takes account of development and design of routes takes account of development. 4. The consultation has taken place to understand the dec. 2. A green infrastructure plan is developed as part of responses and constraints are explained. 4. The masterplan is designed to allow residents to be and convenient pedestrian route and constraints are explained. 5. There is a long-term management strategy in place (7. The green infrastructure plan sets out the provisio consultation. Any deviations are justified. 8. In urban areas the accessible natural green space so Local parking Alm: To ensure parking is appropriate for the expecte. 1. Consultation has taken place between developer, to parking and transport needs. 2. The results have been assessed and an appropriate transport choices has been agreed. 4. Parking is integrated into the development without pedestrian or car movement 5. Residential parking is located behind, under above.	Architect (Sustainability) ble outdoor environment through the control of n morphology on the external microclimate conditions conditions throughout the year) extra credit circoclimate conditions have been provided conditions microclimate conditions) extra credit Landscape Architect ural environment and/or urban green sired uses of green space the masterplan. A summary of the consultation e within walking distance of greenspace via a safe for greenspace n of the desired uses and designs from tandard is achieved) extra credit Architect d users and well integrated into the development. A, highways and community stakeholders on level of parking that promotes sustainable c dominating the space, or interfering with cyclist, or to the side of buildings as opposed to within the	N/A AAP layout we ha stakeholders Retention of exis Mainly with Nott There will be a m N/A Study on car own parking layouts fe illustrative maste	2 ave deviate ting trees, ing Hill haintenance	4 ed from it se plan sub	t of the mi 50% Walkabou omitted wit	1.8 ts with local p h application	particu 0 eople a

AYLESBURY REGENERATION

Notting Hill Housing Group | London Borough of Southwark 15

16

		Aim: To ensure that the development relates to local		Report on cha	racter area	S			
		A review of the area surrounding the development	is undertaken to establish local character	Consultation r					
		Consultation has taken place to consider design The results of the consultation have been analysed	and agreed	Brick materials D&A report	s and pitch	ed roots to	some units	•	
		The designer/developer has demonstrated that the		Балтероп					
		implemented							
		(7. Steps have been taken to reinforce the local identi and features, local plant species. public art, involving							
		spaces.) extra credit	the community in design of focal spaces and open						
q	SE 15	Inclusive design	Architect (Sustainability)	N/A	0	3	0%	1.8	0.00
,	JE 13	Aim : To create an inclusive community by encouragir		Need an acces	sibility cha	mpion	0,0	1.0	0.00
		optimises accessibility for as many current and future							
		 An inclusive design and management strategy is pro and emergency access/egress for all occupants. 	oduced including issues of accessibility, inclusion						
		Community engagement is used to develop the incl	lusive design strategy in GO 02.						
		3. Where available, national and local guidance on pro							
		(5. A person has been appointed to champion inclusiv (7. An appropriately qualified external access consulta	. , ,						
		detailed issues.	and is commissioned to provide on strategic and						
		Decisions relating to accessibility are tracked and re							
		 There is evidence that design impacts are anticipate strategies.) extra credit 							
		strategies.) extra credit							
		and energy							
10	RE 02	Existing buildings and infrastructure Aim: To take account of the embodied carbon in exist	Architect (Sustainability)	Yes Need informat	2 tion from S	2 outhwark o	100%	2.7	2.70
		their re-use where possible.	and buildings and initiastructure and to promote	the AAP		outiiwaik	ii aiiy staan	es done on th	113 01 C0 101
		1. An assessment of existing buildings and infrastructu	ure is carried out to determine what can be	Contact Kathe					
		refurbished, re-used, recycled or maintained 2. A decision is made justifying the use or demolition	of all existing buildings and infrastructure	WSP investigat	tion into re	taining util	ities		
		The developer commits to recycling building or infr							
		them on the site							
		The developer commits to refurbishing any existing	s building of significant value to local community						
				1					
				1					
11	RE 04	Sustainable buildings	Architect (Sustainability)	N/A	4	6	67%	4.1	2.70
		Aim: To increase the sustainability of all buildings with		All residential	buildngs to				
		The team commits to design buildings to comply with a second comply with a second complex to the second c		All non-reside	ntial buildir	ngs to BREE	AM		
		 The commitment is confirmed through a planning of the developer commits to use a standard for key is 							
		occupant heath and well-being	sucs, chergy, water, waste embouled impacts and						
		4. The commitment is confirmed through a planning of							
		The developer commits to using an accredited third site. (4 credits achieved for Code level 4 and BREEAM							
		The commitment is confirmed through a planning of the c							
12	RE 05		Architect (Sustainability)	N/A	2	6	50%	2.7	1.35
12	KL 03	Aim: To reduce the environmental impact of construc		Discuss with D	eloitte on o				_
		impact materials.		Some roads ar					
									_
13	RE 06		Architect (Sustainability)	N/A	3	4	75%	2.7	2.03
13	RE 06	Aim: To promote resource efficiency by reducing was		N/A	3	4	75%	2.7	2.03
13		Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit		N/A	3	4	75%	2.7	2.03
13		Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan		N/A	3	4	75%	2.7	2.03
13		Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit		N/A	3	4	75%	2.7	2.03
13		Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials		N/A	3	4	75%	2.7	2.03
13		Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles		N/A	3	4	75%	2.7	2.03
13		Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials	te during construction and throughout the life	N/A	3	4	75%	2.7	2.03
13		Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments	te during construction and throughout the life	N/A	3	4	75%	2.7	2.03
	Land use a	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition materials)	te during construction and throughout the life		3	4			
		Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition and cology Ecology strategy	te during construction and throughout the life tion waste diversion from landfill) extra credits Landscape Architect (ecologist)	Yes	1	1	100%	3.1	3.15
	Land use a	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition materials)	te during construction and throughout the life tion waste diversion from landfill) extra credits Landscape Architect (ecologist)		1	1	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolity) In the cology Ecology strategy Aim: To ensure that the development maintains or enhabitats.	te during construction and throughout the life tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural	Yes There will be a Julia. Olly, Sara	1 net gain ir	1 1 biodiversi	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition materials modecology Ecology strategy Aim: To ensure that the development maintains or enhabitats.	te during construction and throughout the life tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural cological issues through consultation (GO-02)	Yes There will be a Julia.	1 net gain ir	1 1 biodiversi	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments 10 Commitments to % of demolition and non demolition and cology Ecology strategy Aim: To ensure that the development maintains or en habitats. 1. An ecology impact assessment has been undertake 2. The EcIA takes account of any local knowledge of ea. 3. An ecology strategy covering the construction and damage to ecological features on site.	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid	Yes There will be a Julia. Olly, Sara	1 net gain ir	1 1 biodiversi	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the commitments of the com	te during construction and throughout the life tion waste diversion from landfill) extra credits Landscape Architect (ecologist) shances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed.	Yes There will be a Julia. Olly, Sara Hattie Spray (E	1 net gain ir	1 1 biodiversi	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments 10 Commitments to % of demolition and non demolition of the commitments 10 Commitments to % of demolition and non demolition of the cology Ecology strategy Aim: To ensure that the development maintains or en habitats. 1. An ecology impact assessment has been undertake. 2. The EcIA takes account of any local knowledge of e. 3. An ecology strategy covering the construction and damage to ecological features on site. 4. Where damage is unavoidable, a mitigation plan ha 5. The ecologist confirms that the masterplan conforn	te during construction and throughout the life tion waste diversion from landfill) extra credits Landscape Architect (ecologist) shances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed.	Yes There will be a Julia. Olly, Sara Hattie Spray (E	1 net gain ir	1 1 biodiversi	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the commitments of the com	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. ms to the ecology strategy and that there will be no	Yes There will be a Julia. Olly, Sara Hattie Spray (E	1 net gain ir	1 1 biodiversi	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the commitments of the com	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural in cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. Insto the ecology strategy and that there will be no all features will be preserved and protected during	Yes There will be a Julia. Olly, Sara Hattie Spray (E	1 net gain ir	1 1 biodiversi	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments 10 Commitments to % of demolition and non demolition materials 10 Commitments to % of demolition and non demolition and ron demolition and	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) shances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. ms to the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity.	Yes There will be a Julia. Olly, Sara Hattie Spray (E	1 net gain ir	1 1 biodiversi	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the commitments of the com	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) shances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. ms to the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity.	Yes There will be a Julia. Olly, Sara Hattie Spray (E	1 net gain ir	1 1 biodiversi	100%	3.1	3.15
	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition and non demolition and non demolitical demolities of the service	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) shances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. ms to the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity.	Yes There will be a Julia. Olly, Sara Hattie Spray (E	1 net gain ir	1 1 biodiversi	100%	3.1	3.11 s with
14	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the cology Ecology strategy Aim: To ensure that the development maintains or enhabitats. 1. An ecology impact assessment has been undertake 2. The EcIA takes account of any local knowledge of e 3. An ecology strategy covering the construction and damage to ecological features on site. 4. Where damage is unavoidable, a mitigation plan ha in the cological value on site. 6. The developer confirms that the masterplan conforn net loss of ecological value on site. 6. The developer confirms that all significant ecologic development works. 8. The ecology strategy outlines a plan to ensure then 9. The ecologist confirms that the masterplan conforn net gain on the site.	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. as to the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity. ms to the ecology strategy and that there will be a Architect (Landscape Architect/Urban Design)	Yes There will be a Julia. Olly, Sara Hattie Spray (t	1 net gain ir Sccologist) V	1 n biodiversi	100% ty? Mark W	3.1 heeler Discus	3.1!s with
14	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the cology Ecology Strategy Aim: To ensure that the development maintains or en habitats. 1. An ecology impact assessment has been undertake 2. The EciA takes account of any local knowledge of e 3. An ecology strategy covering the construction and damage to ecological features on site. 4. Where damage is unavoidable, a mitigation plan ha 5. The ecologist confirms that the masterplan conforn net loss of ecological value on site. 6. The developer confirms that all significant ecologic development works. 8. The ecology strategy outlines a plan to ensure then 9. The ecologist confirms that the masterplan conforn net gain on the site. Land use Aim: To encourage the use of previously developed ar	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. as to the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity. ms to the ecology strategy and that there will be a Architect (Landscape Architect/Urban Design)	Yes There will be a Julia. Olly, Sara Hattie Spray (E	1 net gain ir Ecologist) V	1 i biodiversi	100% ty? Mark W	3.1 heeler Discus	3.11 s with
14	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the cology Ecology strategy Aim: To ensure that the development maintains or enhabitats. 1. An ecology impact assessment has been undertake 2. The EcIA takes account of any local knowledge of e 3. An ecology strategy covering the construction and damage to ecological features on site. 4. Where damage is unavoidable, a mitigation plan ha in the cological value on site. 6. The developer confirms that the masterplan conforn net loss of ecological value on site. 6. The developer confirms that all significant ecologic development works. 8. The ecology strategy outlines a plan to ensure then 9. The ecologist confirms that the masterplan conforn net gain on the site.	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural rological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. ms to the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity. ms to the ecology strategy and that there will be a Architect (Landscape Architect/Urban Design) nd/or contaminated land and avoid land which has	Yes There will be a Julia. Olly, Sara Hattie Spray (t	1 net gain ir ccologist) V	1 i biodiversi	100% ty? Mark W	3.1 heeler Discus	3.11 s with
14	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SVMMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the cology Ecology strategy Aim: To ensure that the development maintains or en habitats. 1. An ecology impact assessment has been undertake 2. The EcIA takes account of any local knowledge of e 3. An ecology strategy covering the construction and damage to ecological features on site. 4. Where damage is unavoidable, a mitigation plan ha 5. The ecologist confirms that the masterplan conforn net loss of ecological value on site. 6. The developer confirms that all significant ecological development works. 8. The ecology strategy outlines a plan to ensure then 9. The ecologist confirms that the masterplan conforn net gain on the site. Land use Aim: To encourage the use of previously developed an not been previously disturbed. 1. A desk study to identify any potential land contamit 2. A specialist has performed a site investigation	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) Is a cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. Institute the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity. Institute the ecology strategy and that there will be a Architect (Landscape Architect/Urban Design) Ind/or contaminated land and avoid land which has nation	Yes There will be a Julia. Olly, Sara Hattle Spray (E	1 net gain ir	1 i biodiversi	100% ty? Mark W	3.1 heeler Discus	3.11 s with
14	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the commitments of the commitment of the com	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural in cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. Inst to the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity. Inst to the ecology strategy and that there will be a Architect (Landscape Architect/Urban Design) Ind/or contaminated land and avoid land which has nation formed the masterplan	Yes There will be a Julia. Olly, Sara Hattle Spray (E	1 net gain ir	1 i biodiversi	100% ty? Mark W	3.1 heeler Discus	3.11 s with
14	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SVMMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the cology Ecology strategy Aim: To ensure that the development maintains or en habitats. 1. An ecology impact assessment has been undertake 2. The EcIA takes account of any local knowledge of e 3. An ecology strategy covering the construction and damage to ecological features on site. 4. Where damage is unavoidable, a mitigation plan ha 5. The ecologist confirms that the masterplan conforn net loss of ecological value on site. 6. The developer confirms that all significant ecological development works. 8. The ecology strategy outlines a plan to ensure then 9. The ecologist confirms that the masterplan conforn net gain on the site. Land use Aim: To encourage the use of previously developed an not been previously disturbed. 1. A desk study to identify any potential land contamit 2. A specialist has performed a site investigation	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) hances biodiversity and protects existing natural cological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. Insto the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity. Insto the ecology strategy and that there will be a Architect (Landscape Architect/Urban Design) and/or contaminated land and avoid land which has nation formed the masterplan red by a contaminated land specialist taking into	Yes There will be a Julia. Olly, Sara Hattle Spray (E	1 net gain ir	1 i biodiversi	100% ty? Mark W	3.1 heeler Discus	3.11 s with
14	Land use a LE 01	Aim: To promote resource efficiency by reducing wast cycle of the development. 1. Demolition waste audit 2. Waste management plan 3. WRAP protocol 4. SWMP 6. Landscape designs reusing demolition materials 7. Designing out waste principles 8. Developer commitments (10 Commitments to % of demolition and non demolition of the commitments of the commitments (10 Commitments to % of demolition and non demolition and ron representation and ron site. 8. The ecologist confirms that the masterplan conformet loss of ecological value on site. 8. The ecologist confirms that all significant ecological development works. 8. The ecologist confirms that the masterplan conformet gain on the site. Land use Aim: To encourage the use of previously developed an not been previously disturbed. 1. A desk study to identify any potential land contamil 2. A specialist has performed a site investigation 4. Where remediation is required the findings have in 6. A remediation strategy for the site has been preparencins and remediation strategy for the site has been preparencing and remediation strategy for the site has been preparencing and remediation strategy for the site has been preparencing and remediation strategy for the site has been preparencing and remediation strategy for the site has been preparencing and remediation strategy for the site has been preparencing and	tion waste diversion from landfill) extra credits Landscape Architect (ecologist) thances biodiversity and protects existing natural rocological issues through consultation (GO-02) operation phases has been drawn up to avoid as been agreed. ms to the ecology strategy and that there will be no al features will be preserved and protected during e is a net gain in biodiversity. ms to the ecology strategy and that there will be a Architect (Landscape Architect/Urban Design) nd/or contaminated land and avoid land which has nation formed the masterplan red by a contaminated land specialist taking into ustainable Remediation Forum's (SuRF-UK) d Groundwater Remediation Forum's (SuRF-UK)	Yes There will be a Julia. Olly, Sara Hattle Spray (E	1 net gain ir	1 i biodiversi	100% ty? Mark W	3.1 heeler Discus	3.11 s with
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Ant. To ensure that surface water run off space is used felt-cities (street) to minimum varied remand. All where 5-25% of the hard surface of the site is designed to allow for the harvesting of naiwater for re- size of the surface surface water run off space is used felt-cities (street) to minimum varied remand. A. Named an excellation spatial is designed in accordance with 68.515.2009 and the cellection area A. Named an excellation results in designed in accordance with 68.515.2009 and the cellection area (A. Where 5-25% of the total hard surface of the site is designed to allow the harvesting of rainwater for reuse) extra credit (B. Where nor than 50% of the total land standing and roof is designed to allow the harvesting of rainwater for reuse) extra credit (B. Where nor than 50% of the total land standing and roof is designed to allow the harvesting of rainwater for reuse) extra credit (B. Where no receive than 50% of the total land standing and roof is designed to allow the harvesting of rainwater for reuse) extra credit (B. Where no receive than 50% of the total land standing and roof is designed to allow the harvesting of rainwater for reuse) extra credit (B. Where no receive than 50% of the total land standing and roof is designed to allow the harvesting of rainwater (B. Allow no receive that the save than the save		the location of features and design appropr 1. the ecologist confirms that the detailed Is LEO1 3. At least 60% of tree and shrub and herba other appropriate species recommended by 4. A commitment is made to appoint an eco 6. Water efficiency is considered in the sele- strategy in RE-03 Water Strategy. 8. At least 80% of tree and shrub and herba species recommended by the ecologist. (10. There is a commitment to prepare a lar 11. The proposed landscape design has be outlined in consultation for SE-07-Public Re: (12. Existing landscape features considered	andscape design conforms to the strategy prepared under ceous planting consist of appropriate native species, or y the ecologist. Jogy clerk of works to manage implementation ction of planting and irrigation and informed by the water ceous planting consist of appropriate native species or indscape maintenance and management plan. Extra credit en developed with reference to the community needs	Trees and plar Spray(Ecologis 9 & 10 are ach 13 is achieveal	t) to check ieveable				an
Safe and appealing streets Architect (Landscape Architect/Jrban Design) N/A 4 1,00% 3.2 3.18 Alm: To crorate safe and appealing spaces that ancourage human interaction and a positive sense of place. 1. The transport assessment or statement and travel plans are used to inform the objectives for the design of streets. 2. A context appraisal is carried out to determine the lapropriate layout of streets in relation to existing context. 3. A movement framework is developed to determine the lapropriate layout of streets that will promote 1. A movement framework is developed to determine the lapropriate layout and design of streets that will promote 1. Street layout are safe and secure, overfooked and ownership is clear. 5. Street layouts are safe and secure, overfooked and ownership is clear. 6. Design measure are incorporated into the materiaplan to ensure safety with regard to large vehicles and pedestrian and cycle movement. Delivery areas are not accessed through parking areas and do not share pedestrian and cycle movement. Evidence produces are not covered by the local authority for at least five years from occupation), extra credit 11. Within the developments traffic management plan. Largest have been set regarding road traffic accident reduction. 11. A maintenance contract will be in place for external areas that are not covered by the local authority for at least five years from occupation), extra credit 11. A maintenance contract will be in place for external areas that are not covered by the local authority of at least five years from occupation), extra credit 11. The movement framework developed for TMO2 covers items A. E. (Vice route) are seggregated from vehicles and pedestrians as appropriate to year of the segment of the s		Aim: To ensure that surface water run-off sp 1. Where 5-25% of the hard surface of the suse 2. A rainwater collection system is designed measured in accordance with BS 12056:200 (4. Where 26-50% of the total hard surface for reuse.) extra credit (6. Where more than 50% of the total hard strainwater for reuse.) extra credit	pace is used effectively to minimise water demand. ire is designed to allow for the harvesting of rainwater for re l in accordance with BS 8515:2009 and the collection area of the site is designed to allow the harvesting of rainwater	Attenuation ta e- rainwater harv tanks. Oliver C	nks provid esting. Che hapman	e a sump b eck if water	elow draina r from parki	ige level, use ng areas is go	this as a
Aim: To create safe and appealing spaces that encourage human interaction and a positive sense of place. 1. The transport assessment or statement and travel plans are used to inform the objectives for the design of streets. 2. A context appraisal is carried out to determine the appropriate layout of streets in relation to existing context. 3. A movement framework is developed to determine the layout and design of streets that will promote sustainable modes of movement and transport through travel plans. 3. Street layouts are safe and secure, overlocked and cownership is clear. Secure of the promote sustainable modes of movement and transport through travel plans. 3. Street layouts are safe and secure, overlocked and cownership is clear. Secure of the promote sustainable modes of movement and respective and representation and secure of the promote o			Architect (Landscane Architect/Urhan Design)	N/A	4	4	100%	3.2	3 18
Aim: To ensure the availability of frequent and convenient public transport links to fixed public transport nodes (train, bus, tram or tube) and local centres. 1. The distance from building entrance to transport nodes should be less than 650 m 2. The distance is less than 450m) extra credit 2. The distance is less than 450m) extra credit 2. The distance is less than 350m) extra credit 2. The distance is less than 350m) extra credit 3. Architect (Landscape Architect/Urban Design) 4. Architect (Landscape Architect/Urban Design) 5. Cycling facilities 6. Consultation to establish likely requirements 7. The results have been analysed and an appropriate level of cycle facilities has been agreed 8. A commitment to provide adequate space for storage 9. Non-residential uses have facilities in accordance with BREEAM 2011 7. During consultation the LA and developer have agreed a maintenance strategy for facilities Measure the distances on the map: Elisabetta		1. The transport assessment or statement a design of streets. 2. A context appraisal is carried out to deter context 3. A movement framework is developed to a sustainable modes of movement and transp. 5. Street layouts are safe and secure, overlo 6. Design measures are incorporated into the and pedestrian and cycle movement. Delive share pedestrian and cycle movement. Delive share pedestrian and cyclist routes. 8. The landscape design strategy enhances attractive landscaping. 9. Pedestrian routes allow easy navigation upon the compact of th	determine the layout and design of streets that will promote bort through travel plans soked and ownership is clear. The masterplan to ensure safety with regard to large vehicles are are not accessed through parking areas and do not provided pro	N/A Assume one or	redit : Ana	McMillan	1	2.1	2.12
Aim: To ensure the availability of frequent and convenient public transport links to fixed public transport nodes (train, bus, tram or tube) and local centres. 1. The distance from building entrance to transport nodes should be less than 650 m 2. The distance is less than 450m) extra credit 2. The distance is less than 450m) extra credit 2. The distance is less than 350m) extra credit 2. The distance is less than 350m) extra credit 3. Architect (Landscape Architect/Urban Design) 4. Architect (Landscape Architect/Urban Design) 5. Cycling facilities 6. Consultation to establish likely requirements 7. The results have been analysed and an appropriate level of cycle facilities has been agreed 8. A commitment to provide adequate space for storage 9. Non-residential uses have facilities in accordance with BREEAM 2011 7. During consultation the LA and developer have agreed a maintenance strategy for facilities Measure the distances on the map: Elisabetta		3. The movement mannework covers items i							
transport nodes (train, bus, tram or tube) and local centres. 1. The distance from building entrance to transport nodes should be less than 650 m 2. The distance is less than 450m) extra credit (4. The distance is less than 450m) extra credit 2. TM 05		3. THE HOVEINGHE Halliework covers items i				<u> </u>			
Aim: To promote cycling by ensuring the adequate provision of cyclist facilities. 1. Consultation to establish likely requirements 2. The results have been analysed and an appropriate level of cycle facilities has been agreed 4. A commitment to provide adequate space for storage 5. Non-residential uses have facilities in accordance with BREEAM 2011 7. During consultation the LA and developer have agreed a maintenance strategy for facilities			Architect	N/A	2	4	50%	2.1	1.06
Aim: To promote cycling by ensuring the adequate provision of cyclist facilities. 1. Consultation to establish likely requirements 2. The results have been analysed and an appropriate level of cycle facilities has been agreed 4. A commitment to provide adequate space for storage 5. Non-residential uses have facilities in accordance with BREEAM 2011 7. During consultation the LA and developer have agreed a maintenance strategy for facilities	I TM 04	Access to public transport Aim: To ensure the availability of frequent a transport nodes (train, bus, tram or tube) ai 1. The distance from building entrance to tr 2. The distance from building entrance to tr (3. The distance is less than 450m) extra cre	and convenient public transport links to fixed public nd local centres. ansport nodes should be less than 650 m ansport nodes should be less than 550 m dit			1		2.1	1.06
Innovation	L TM 04	Access to public transport Aim: To ensure the availability of frequent a transport nodes (train, bus, tram or tube) a 1. The distance from building entrance to tr 2. The distance from building entrance to tr (3. The distance is less than 450m) extra cre (4. The distance is less than 350m) extra cre	and convenient public transport links to fixed public nd local centres. ansport nodes should be less than 650 m ansport nodes should be less than 550 m ddit ddit	Measure the o	listances or	n the map:	Elisabetta		
	L TM 04	Access to public transport Aim: To ensure the availability of frequent a transport nodes (train, bus, tram or tube) at 1. The distance from building entrance to tr 2. The distance from building entrance to tr (3. The distance is less than 450m) extra cre (4. The distance is less than 350m) extra cre (7. The distance is less than 350m) extra cre (8. The distance is less than 350m) extra cre (9. The results to establish likely requirement 1. Consultation to establish likely requirement 2. The results have been analysed and an application of the sum of the	and convenient public transport links to fixed public and local centres. I cansport nodes should be less than 650 m ansport nodes should be less than 550 m and the less than 550 m and the less than 650 m and the less than	Measure the d	listances or	n the map:	Elisabetta	1.1	1.06

	BREEAM Communities Credits	Engineering					ht	a
		p 1 before planning is submitted, all others are assessed in Step 2	after planning	is submitted. I	Elements in br	ackets are not	currently inclu	ded in the
prediction.								
Version	1.0	29/08/2014	Rory Bergin Have		ı .			
Identifier	Issue name	Responsibility	mandatory standards been met?	Credits assumed	Credits available	% of credits achieved	Issue weighting	Issue score
		Governance						
<u> </u>								
Social and SE 03	economic wellbeing - Environmental cond Flood risk assessment	ditions Engineering	Yes	2	2	100%	3.5	3.48
35.03		nts take due account of flood risk and, where it is present, take				redits, see exec		3.40
	appropriate measures to reduce the risk of 1. A site specific flood risk assessment 2. The flood zones are determined in acco 3. A commitment is made to incorporate to masterplan	of flooding to the development and the surrounding areas. Ordance with best practice and planning policy the recommendations of all appropriate statutory bodies into the large the development has been designed to minimise risk onsite	credit informa	-				
SE 04	Noise pollution	Engineering	Yes	1	3	33%	1.8	0.60
	from existing sources of noise, reducing p protecting nearby noise-sensitive areas fr 1. A noise impact assessment has been ca 2. All noise attenuation measures have be (4.Building locations and orientations hav (6. The developer commits to achieve ind	en incorporated into the masterplan e been informed by noise impacts.) oor ambient noise levels that satisfy BS8233:1999 'reasonable') iting noise level difference no greater than +5dB during the day	Noise monitor achieve 3 cred	-	ninent, possib	le second cred	it. Can we	
SE 13	Flood risk management	Engineering	N/A	2	3	67%	1.8	1.20
	minimising the risk of localised flooding o damage. 1. SEO3 recommendations have been inco 2. An appropriately qualified professional 3. The peak rate of runoff is no greater po (5. Any additional rainwater discharge fro alternatives justified) (extra credit)	arge of rainfall to public sewers and watercourses, thereby n and off site, watercourse pollution and other environmental proporated into the masterplan is appointed to calculate surface water run-off report set than pre-development allowing for 1 and 100 year events ma 6 hour event should be reduced by infiltration or Suds or occur in the event of local drainage failure) (extra credit)	Positive to 5, 6 application	extra credit for	5, possiby 7 a	s well, within d	etailed	
SE 16	Light pollution	Engineering	N/A	1	3	33%	0.9	0.30
	The lighting design guide for the develor lighting. (3. 100% high efficiency street lighting wit (5. 100% high efficiency lighting with limit 6. The final lighting design guide outlines the lighting is low powered) (extra credit)	opment site is designed to reduce light pollution. ppment is in line with LA guidance and include street and security thi limited upward light transmission is installed) (extra credit) red upward light transmission is installed for additional lighting the how light pollution will be minimised and the specification for		credits, Barne	to speak to	Alan Howard al	oout	
SE 09	economic wellbeing - Social wellbeing Utilities	Engineering	N/A	1	3	33%	0.9	0.30
	Aim:To provide easy access to site service and need for reconstruction, and to allow 1. provision of a single access point for ea 2. Coordinated installation of gas, electric (4. Access to the services is provided awa 5. individual service providers have commidisruptive) (extra credit) (Ducting is provided in addition to the need)	and communications infrastructure, with minimal disruption for future growth in services. ch service on site ity, water/sewage, comms, heating & cooling	Question for t site. Some ser	he BRE: This is	going to be in ed. Electrical a	npossible in a d nd broadband	ense urban	
RE 01	and energy Energy strategy	Engineering (energy)	Yes	3	11	27%	4.1	1.11
, ILL 01	Aim: To recognise and encourage develop consumption and carbon dioxide emission 1. An energy strategy has been prepared	ments designed to minimise operational energy demand, ns. ecommendations achieving (40% CO2 reductions)	35% above pa CHP until proc	rt L: Currently curement is cor ries of values f	averaging 32% mpleted.	6. Some uncertivalues. Assump	ainty about	1.11
RE 03	Water strategy	Engineering (water)	Yes	1	1	100%	2.7	2.70

	Aim: To ensure that the development is designed to minimise water demand through efficiency and	ОК					
	appropriate supply-side options taking full account of current and predicted future availability of water in						
	the area.						
	The developer engages with all relevant bodies to develop overall water consumption targets.						
	A strategy is prepared to manage water demand on the site to meet those targets.						
	4. A commitment is made to enforce the adoption of water consumption targets on buildings constructed						
	on the site						
	5. A commitment is made to design and specify landscape in accordance with the water strategy						
	6. Responsibility for managing the water supply/collection facilities are established						
	or responsibility for managing the water supply/concection facilities the established						
RE 07	Transport carbon emissions Engineering (transport)	N/A	1	1	100%	2.7	2.70
	Aim:To reduce pollution associated with car use and provide viable alternatives to car ownership.	Separate mee	ting with Juli	ia and Ian Din	ablylow on this. S	end Martin	
	Feasibility study to establish alternative transport options	some dates to	-		,		
	Travel plans for the development	Joine dates to					
	One alternative means of sustainable transport established						
	5. The sustainable transport options are well advertised						
	Management plans are in place tomonitor use and maintain facilities						
	o. Management plans are in place tomoritor use and maintain facilities						
							L
	and ecology						
LE 03	Water pollution Engineering (water)	N/A	2	3	67%	1.0	0.70
	Aim:To ensure that measures are put in place to protect the local watercourse from pollution and other	Achieve 4, 5,	, probably n	ot 8.			
	environmental damage.						
	A drainage plan will be supplied to the water authority						
	2. Measures are put in place to prevent any water pollution in accordance with PPG1,5,6						
	4. A suitably qualified professional ensures the design will not allow pollution from hard surfaces in						
		1					
l	laccordance with SuDs manual	l .					
	accordance with SuDs manual 5. Shut-off valves for any gas storage						
	5. Shut-off valves for any gas storage						
	Shut-off valves for any gas storage Specification of petrol separators in surface water drainage						
	5. Shut-off valves for any gas storage						
Transnor	Shut-off valves for any gas storage Specification of petrol separators in surface water drainage The SQE confirms that there will be no discharge up to 5mm rainfall) extra credit						
	Shut-off valves for any gas storage Specification of petrol separators in surface water drainage (8. The SQE confirms that there will be no discharge up to 5mm rainfall) extra credit t and movement	Vec	1	1 2	T 50%	32	159
Transpor	Shut-off valves for any gas storage Specification of petrol separators in surface water drainage (8. The SQE confirms that there will be no discharge up to Smm rainfall) extra credit tand movement Transport assessment Engineering (transport)	Yes	1	2	50%	3.2	1.59
	S. Shut-off valves for any gas storage Specification of petrol separators in surface water drainage (8. The SQE confirms that there will be no discharge up to Smm rainfall) extra credit tand movement Transport assessment	Yes	1	2	50%	3.2	1.59
	S. Shut-off valves for any gas storage Specification of petrol separators in surface water drainage (8. The SQE confirms that there will be no discharge up to 5mm rainfall) extra credit t and movement Transport assessment Engineering (transport) Aim: To ensure transport and movement strategies reduce the impact of the development upon the existing transport infrastructure and improve environmental and social sustainability through transport.	Yes	1	2	50%	3.2	1.59
	5. Shut-off valves for any gas storage 6. Specification of petrol separators in surface water drainage (8. The SQE confirms that there will be no discharge up to 5mm rainfall) extra credit t and movement Transport assessment	Yes	1	2	50%	3.2	1.59
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TM 01	5. Shut-off valves for any gas storage 6. Specification of petrol separators in surface water drainage (8. The SQE confirms that there will be no discharge up to 5mm rainfall) extra credit tand movement Transport assessment Engineering (transport) Aim: To ensure transport and movement strategies reduce the impact of the development upon the existing transport infrastructure and improve environmental and social sustainability through transport. 1. A transport assessment is developed 2. A travel plan coordinator is appointed to develop travel plans 3. A travel plan is developed outlining the design methods used to encourage sustainable transport 5. The transport assessment and travel plans positively influence the development, by reducing the need for car travel, reducing length of trips, (7. The transport assessment confirms that there is spare capacity to meet the demands of the proposed development OR 8. Where development is phased public transport will be subsidised for early phases) Public transport facilities Engineering (transport) Aim: To encourage frequent use of public transport throughout the year by providing safe and						
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TM 01	5. Shut-off valves for any gas storage 6. Specification of petrol separators in surface water drainage (8. The SQE confirms that there will be no discharge up to 5mm rainfall) extra credit t and movement Transport assessment Engineering (transport) Aim: To ensure transport and movement strategies reduce the impact of the development upon the existing transport infrastructure and improve environmental and social sustainability through transport. 1. A transport assessment is developed 2. A travel plan coordinator is appointed to develop travel plans 3. A travel plan is developed outlining the design methods used to encourage sustainable transport 5. The transport assessment and travel plans positively influence the development, by reducing the need for car travel, reducing length of trips, (7. The transport assessment confirms that there is spare capacity to meet the demands of the proposed development OR 8. Where development is phased public transport will be subsidised for early phases) Public transport facilities Engineering (transport) Aim: To encourage frequent use of public transport throughout the year by providing safe and comfortable transport facilities. 1. Consult LA, community and transport providers on transport facilities 2. Analyse and plan facilities that encourage public transport 3. Shelters at public transport stops 4. Adequate size of shelters for older people and disabled 6. Shelters to be compliant with full list of requirements (8. Shelters to be compliant with full list of requirements) extra credit						

AYLESBURY REGENERATION
Notting Hill Housing Group | London Borough of Southwark

3.3 SUSTAINABILTY STANDARDS THE CODE FOR SUSTAINABLE HOMES

Project Details

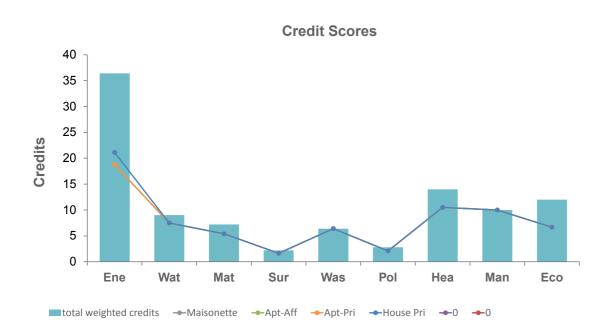
Project Code: Aylesbury Estate
Project Code: NHH-AES
Code Assessor: Rory Bergin
Date: 29-Aug-14

Code version: November 2010



Predicted Code Level

Target Code Level:	Maisonet te 4	Apt-Aff	Apt-Pri	House Pri 4	
Pre-assessment Code Level:	4	4	4	4	
Total Credit Score: Target Credit Score:	68.8 68	68.8 68	68.8 68	71.2 68	
	Man	datory E	Elements	s - All Le	evels
Energy Code Level: Water Code Level: Materials: Surface Water: Household Waste: Construction Waste:	√	4 3&4 ✓ ✓	4 3&4 ✓ ✓	4 3&4 ✓ ✓	



Energy

Ene 1 - Dwelling Emission Rate

Credits are awarded based on the percentage improvement of the Dwelling Emission Rate (DER) over the Target Emission Rate (TER) as calculated using SAP 2009. Minimum standards for each Code level apply.

% Improvement of DER over TER	Mandator y Levels	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
≥ 8%		1						
≥ 16%		2						
≥ 25%	4	3						
≥ 36%		4						
≥ 47%		5	2	2	٠,	_		
≥ 59%		6	3	3	3	3		
≥ 72%		7						
≥ 85%		8						
≥ 100%	5	9						
Zero CO ₂ Emissions	6	10						

Assumptions	Evidence Required
This score will be achieved by the use of	Detailed documentary evidence confirming
good quality building fabric, efficient	the TER, DER and percentage improvement
windows, and good airtightness.	of DER over TER based on design stage SAP
Likely energy solutions are	outputs*
-CHP/communal gas boilers with other roof	OR
mounted renewables.	Where applicable:
	A copy of calculations as detailed in the
	assessment methodology based on design
	stage SAP outputs*
	AND
	Confirmation of FEE performance where SAP
	section 16 allowances have been included in
	the calculation
	*Dated outputs with accredited energy
	assessor name and registration number,
	assessment status, plot number and
	development address.

Ene 2 - Fabric Energy Efficiency

Credits are awarded based on the Fabric Energy Efficiency obtained from the SAP 2009 calculations (kWh/m²/year).

	. uvvaraca i										
Flats/Mid-	End	or Is	٠. يو	ŧ	<u>s</u> =	· -	<u>=</u>			Assumptions	Evidence Required
Terrace	Terrace,	dat	ed ed	e 50	₹	<u>ب</u>	nse I		0	This score will be achieved by the density of Detaile	ed documentary evidence confirming
Houses	Semi &	Man y Le	ည် တိ	Maisonett	Ap	Apt	<u></u>			the design, and the proportion of openings fabric	energy efficiency based on Design
	Detached	2		2						to the building fabric. These factors will Stage S	SAP outputs
≤ 48	≤ 60		3							combine to reduce the heating demand in OR	
≤ 45	≤ 55		4							the dwellings to a minimum. Where	applicable:
≤ 43	≤ 52		5							<u> </u>	of calculations as detailed in the
≤ 41	≤ 49		6	5	5	5	7				ment methodology based on design
≤ 39	≤ 46	5&6	7								37
≤ 35	≤ 42		8							3	SAP outputs
≤ 32	≤ 38		9								d outputs with accredited energy
			1		-	-		-			or name and registration number,
										assess	ment status, plot number and
										develo	pment address.

Ene 3 - Energy Display Devices

Credits are awarded where energy display devices are specified.

Provision of Energy Display Devices	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
An energy display device is supplied displaying current electricity OR primary heating fuel consumption data.	1						
An energy display device is supplied displaying current electricity AND primary heating fuel consumption data.	2	2	2	2	2		
Default credits where electricity is the primary neating fuel and an energy display device is supplied.	2						

Assumptions	Evidence Required
An energy display device will be supplied	Detailed documentary evidence confirming:
displaying current electricity and primary	That the correctly specified energy display
heating fuel consumption data. This	device is dedicated to the dwelling
information helps residents to keep control	AND
of their fuel bills, and prompts them to	The consumption data displayed by the
switch unused equipment off.	correctly specified energy display device
	Where detailed documentary evidence
	cannot be produced at this stage:
	A specification can be allowed as evidence
	of intent to meet specific requirements
	OR
	A letter of instruction to a
	contractor/supplier or a formal letter from
	the developer giving the specific
	undertaking can be allowed

Ene 4 - Drying Space

One Credit is awarded for the provision of either internal or external secure drying space with posts and footings or fixings capable of holding 4m+ of drying line for 1-2 bed dwellings and 6m+ for dwellings with 3 bedrooms or greater.

	Drying Space to be Provided	Credit	Score	Maisonett e	Apt-Aff	Apt-Pri	House Pri	0	0
Ī	Yes	1	l	1	1	1	1		
	No	()	1			_		

ri	<u>.</u>		Assumptions
se	0	0	This is achieved by installing external
House			clothes dryers in the dwellings with garde
			and tidy drying systems over the baths in
1			dwellings without gardens. This reduces t
			use of expensive electric clothes dryers ar
			reduces the residents carbon dioxide
			emissions.

Evidence Required For internal; location of drying fixings, ens, details/location of ventilation provided, details of lock if communal dying space and the length of line. and For external; location of fixings/footings or oosts, details of lock if communal dying space and length of line.

A letter from the developer giving the specific undertaking.

Ene 5 - Energy Labelled White Goods

Credits are awarded where each dwelling is provided with either information about the EU Energy Labelling Scheme, White Goods

Energy Labelled White Goods	Credit Score
EU Energy Labelling info	1
A+ Rated Fridges & Freezers	1
A+ Rated Fridges & Freezers,	
A rated washing machines	2
and dishwashers, and either	
B rated dryers or EU leaflet.	

Maisonett e	Apt-Aff	Apt-Pri	House Pri	0	0
1	1	1	1		

Evidence Required
If no or not all white goods are provided:
A copy of the EU Energy Efficiency Labelling
Scheme leaflet. Confirmation that leaflets
will be provided to all dwellings.
Confirmation that all appliances available
for purchase with the dwelling are
compliant.
If white goods are provided:
Appliances should be provided with their
applicable energy rating.

Ene 6 - External Lighting

Credits are awarded based on the provision of space lighting with dedicated energy efficient fittings and security lighting fittings with appropriate control gear OR provision of dual lamp luminaires with both space and security lamps.

External Lighting Provision	Credit Score
Space Lighting	1
Space & Security Lighting	2
Space lighting & credits	
awarded by default for no	2
security lighting	

Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
2	2	2	2		

Assumptions							
This will be achieved by providing external							
security lighting where appropriate, that is							
no more than 150 W low energy fittings and							
has appropriate switching gear. These							
fittings will only come on when the externa							
light levels are low and when there is							
movement within the scope of the							
movement detector.							

Evidence Required elevant drawings clearly showing the location of all external light fittings nd AND Detailed documentary evidence confirming: • The types of light fitting and efficacy, in umens per circuit watt, for all lamps • The control systems applicable to each light fitting or group of fittings Where detailed information is not available at this stage: A letter of instruction to a contractor/supplier or a formal letter from the developer giving the specific

undertaking

Ene 7 - Renewable Technologies

Credits are awarded where either there is a 10% or 15% reduction in total carbon emissions that result from using renewable technologies.

% Contribution Made by Low or zero carbon Technologies	Credit Score
< 10%	0
≥ 10%	1
≥15%	2

Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
0	0	0	0		

	1
Assumptions	Evidence Required
This credit is not sought.	A copy of calculations as detailed in the
	assessment methodology based on design
	stage SAP outputs
	AND
	Detailed documentary evidence confirming
	that the specified low or zero carbon
	technologies:
	Meet any additional requirements defined
	in Directive 2009/28/EC as applicable.
	And are:
	Certified under the Microgeneration
	Certification Scheme*
	OR
	Certified under the CHPQA standard*
	*As applicable.

Ene 8 - Cycle Storage

Credits are awarded where adequate, safe, secure, and weather proof cycle storage is provided according to the Code requirements.

Provision of Cycle Storage	Credit	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
No cycle storage	0						
Storage for 1 cycle for every	1	1	1	1	1		
Storage for 1 cycle per bedroom	2			_	_		

Assumptions	Evider
Description, eg: Communal and individual	Detailed document
bike stores to be provided for all dwellings	• The number of be
at a rate of 1 cycle space for every 2	corresponding num
bedrooms for apartments and one cycle	spaces per dwelling
space per bedroom for the houses. The use	 Location, type and
of cycles to travel helps residents keep fit	 Convenient access
and healthy and to reduce the carbon	 Any security meas
emissions of their transportation.	 Details of the proj
	applicable)
	 How the requirem
	Secured by Design -
	be met (if applicabl
	Where detailed info

	Evidence Required
ıl	Detailed documentary evidence showing:
gs	• The number of bedrooms and the
	corresponding number of cycle storage
	spaces per dwelling
se	 Location, type and size of storage
t	Convenient access to cycle storage
	Any security measures
	Details of the proprietary system (if
	applicable)
	How the requirements of clause 35 of
	Secured by Design – New Homes 2010 will
	be met (if applicable)
	Where detailed information is not available
	at this stage:
	A letter of instruction to a
	contractor/supplier or a formal letter from
	the developer giving the specific

undertaking

Ene 9 - Home Office

A credit is awarded for the provision of space for a home office. The location space and services provided must meet the Code requirements.

1 1

Provision of Home Office	Credit Score	Maisonett	Apt-Aff
Yes	1	1	1
No	0		1

Assumptions	
Description, eg: This will be achieved by	I
providing the appropriate space and	l
services in each dwelling to enable home	l
working, hobbies or study. These spaces will	l
be designed to be well lit and adequately	l
sized to house a desk, chair and some shelf	
space.	l

	Evidence Required
	Detailed documentary evidence showing:
	 Location of and sufficient space for the
	home office
will	 Location and number of sockets
	 Location of telephone points
elf	• That adequate ventilation will be provided
	• That an average daylight factor of at least
	1.5% is achieved
	• Confirmation of one of the following:
	– cable connection
	– that broadband is available at the site
	level (not for individual dwellings), i.e. a
	letter from the developer confirming that
	they have checked that broadband is
	available
	– two telephone points (or double telephone

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Water

Wat 1 - Indoor Water Use

Credits are awarded based on the predicted average household water consumption, calculated using the Code Water Calculator Tool. Minimum standards for each code level apply.

Predicted Water Use	Mandatory Levels	Credit Score
>120 l/person/day		0
<120 l/person/day	1 & 2	1
<110 l/person/day		2
<105 l/person/day	3 & 4	3
<90 l/person/day		4
<80 I/person/day	5 & 6	5

·OC	ie ievei	appiy.				
	Maisonett e	Apt-Aff	Apt-Pri	House Pri	0	0
	4	4	4	4		

	Assumptions
The use of pot	table water will be reduced to
less than 90 lit	tres/person/day. This will be
achieved by th	ne use of low flow taps,
smaller baths,	mains powered showers and
dual flush WC	's. Many areas of the UK that
are highly pop	ulated do not receive
sufficient rain	water to meet the needs of
residents usin	g the current average of 150
litres per pers	on per day.

to Completed Water Efficiency Calculator for
New Dwellings internal potable water use
for each dwelling which has a different
d specification
t AND

Detailed documentary evidence showing:

• Location, details and type of appliances/
fittings that use water in the dwelling
including any specific water reduction
equipment with the capacity / flow rate of
equipment.

 Location, size and details of any rainwater and greywater collection systems provided for use in the dwelling

Where detailed documentary evidence is not available at this stage;

Completed Water Efficiency Calculator for New Dwellings internal potable water use for each dwelling which has a different specification AND

A letter of instruction to a contractor/ supplier or a formal letter from the developer giving a specific undertaking, providing sufficient information to allow the water calculations to be completed

Wat 2 - External Water Use

A credit is awarded where a compliant system is specified for collecting rainwater for external irrigation purposes. Where no outdoor space is provided the credit can be achieved by default.

Collection System	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
individual or communal tdoor space, or only a lcony	1						
oor space with ction system	1	1	1	1	1		
tdoor space without lection system	0						

Assumptions	Evidence Required
The apartments will receive this credit by	Detailed documentary evidence stating
default as they will have a balcony.	type, size and location of any rainwate
Houses with gardens are to be provided	collection systems
with water butts linked to the rainwater	Where detailed documentary evidence
downpipes.	not available;
	A letter of instruction to a contractor /
	supplier or a formal letter from the
	developer giving a specific undertaking

Materials

Mat 1 - Environmental Impact of Materials

At least 3 of the 5 key building elements must achieve a Green Guide 2008 Rating of A+ to D.

Environmental Impact of Materials	Mandatory Levels	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
Mandatory equirement met	All	Yes	Yes	Yes	Yes	Yes		
Predicted number of credits		1-15	12	12	12	12		

. 10 5.	
Assumptions	Evidence Required
This credit will be achieved by specifying	Completed Code Mat 1 Calculator Tool,
materials that have a low environmental	showing building elements at the design
impact as described in the BRE Green	stage with the relevant Green Guide
Guide. Only materials that score a rating of	element numbers
C or higher will be used in the construction.	AND
	References stating the design or
	specification documentation used to
	complete the tool

Mat 2 - Responsible Sourcing of Materials - Basic Building Elements

Credits are awarded where materials used in the basic building elements are responsibly sourced.

Responsible Sourcing - Basic Building Elements	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0
Predicted number of credits	1-6	4	4	4	4	

	Assumptions	Evidence Required
	This credit will be achieved by procuring	Completed Code Mat 2 Calculator Tool,
	materials that have the correct certification.	showing building elements at the design
	100% of timber will be FSC certified.	stage
		AND
_		Detailed documentary evidence stating the
		materials specified in each element
		A letter of intent confirming:
		The product shall be sourced from
		suppliers capable of providing certification
		to the level required for the particular tier
		claimed.
		And where possible:
		 A copy of the CoC and/or BES6001
		and/or EMS certificate.
		For recycled materials: Documentation
		stating which particular materials will be
		recycled A letter of intent to use suppliers
		who can provide an EMS certificate (or
		equivalent) for the recycling process

Mat 3 - Responsible Sourcing of Materials - Finishing Elements

Credits are awarded where materials used in the finishing elements are responsibly sourced.

Responsible Sourcing - Finishing Elements	Credit	Maisonett e	Apt-Aff	Apt-Pri	House Pri	0	0
Predicted number of credits	1-3	2	2	2	2		

This credit will be achieved by procuring	Completed Code Wat 3 Calculator 1001,
materials that have the correct certification.	showing building elements at the design
 100% of timber will be FSC certified. 	stage
	AND
-	Detailed documentary evidence stating the
	materials specified in each element
	A letter of intent confirming:
	The product shall be sourced from
	suppliers capable of providing certification
	to the level required for the particular tier
	claimed.
	And where possible:
	• A copy of the CoC and/or BES6001
	and/or EMS certificate.
	For recycled materials: Documentation
	stating which particular materials will be
	recycled A letter of intent to use suppliers
	who can provide an EMS certificate (or

Assumptions

Evidence Required

eauivalent) for the recyclina process

Surface Water

Sur 1 - Management of Surface Water Run-Off from Developments

The peak rate of run-off into watercourses is no greater for the developed site than it was for the pre-development site. Where SUDS are used to improve the quality of the rainwater discharged or for protecting the quality of the receiving waters.

Surface Water Run- Off	Mandatory Levels	Credit Score	Maicoich.	e	Apt-Aff	Apt-Pri	House Pri
Mandatory requirement met	All	Yes	١	es/	Yes	Yes	Ye
Default case		0					
No discharge from site for rainfall depths of 5mm		1		0	0	0	C
Treatment to run- off water to reduce pollution		1		1	1	1	1

e	Apt-Aff	Apt-Pri	House Pri	0	0	Surface run area of land previously, t
es	Yes	Yes	Yes			will need to infiltration o
)	0	0	0			internal use compliant SI runoff. This permeable p
1	1	1	1			or by diverti soakaways.

Assumptions
Surface runoff is increased due to a larger
area of land being developed than
previously, therefore the volume of runoff
will need to be reduced either through
infiltration or rainwater harvesting (for
internal use). It is assumed that code
compliant SUDS will also be used to reduce
runoff. This can be provided using
permeable paving in hard landscaped areas,
or by diverting rainwater from roofs to
soakaways.

AND

Statement from the appropriately qualified professional confirming that they are qualified in line with the Code definition.

Evidence Required

The appropriately qualified professional's report containing all information necessary to demonstrate compliance with the peak rate of run-off and volume of run-off requirements.

A Flood Risk Assessment confirming the risk of flooding from all sources of flooding (this may be contained within the appropriately qualified professional's report)

Drawings showing the pre-development Irainage for the site (natural or constructed)

AND

Drawings showing the proposed drainage solution, system failure flood flow routes, otential flood ponding levels and ground floor levels

Confirmation from the appropriately qualified professional that local drainage system failure would not cause an increase in the risk of flooding within dwellings either on or off site

Where credits are sought: The appropriately qualified professional's report detailing the design specifications, alculations and drawings to support the awarding of the credit(s)

Sur 2 - Flood Risk

Credits are awarded where developments are located in areas of low flood risk or where in areas of medium or high flood risk appropriate measures are taken to prevent damage to the property and its contents.

Flood Risk	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
Development in Zone 1	2						
Development in Zone 2 or 3, all protection measures are demonstrated, and ground floor level is 600mm above design flood level.	1	2	2	2	2		

Assumptions
The site is a low flood risk area according to
the Environment Agency maps, a full FRA
will be carried out during the planning
design phase.

A Flood Risk Assessment (prepared according to good practice guidance as utlined in Development and Flood Risk: A practice guide companion to PPS25) which shows the risk of flooding from all sources. For medium (Zone 2) or high (Zone 3a) • Site plans indicating the design flood level, the range of ground levels of the dwellings, car parking areas and site access (lowest to highest), showing that the criteria (finished floor levels of all habitable ooms and access routes being at least 600 mm above the design flood level) are met, long with any notes explaining the function of any areas lying below the design flood level

Evidence Required For developments situated in Zone 1, 2 or 3:

• Confirmation from the local planning authority that the development complies with PPS25 and is appropriately flood resilient and resistant, and has managed any residual risk safely.

Waste

Was 1 - Storage of Non-Recyclable Waste and Recyclable Household Waste

The space provided for waste storage should be sized to hold the larger of either all external containers provided by the Local Authority or the min capacity calculated from BS5906.

Storage of Waste	Mandatory Levels	Credit Score	Maisonett e	Apt-Aff	Apt-Pri	House Pri	0	0
Mandatory requirement met - minimum space and accessibility	All	Yes	Yes	Yes	Yes	Yes		
No Local Authority Collection Scheme and no external waste storage		2						
Local Authority collection scheme		4						
No Local Authority Collection Scheme and external waste storage provided		4	4	4	4	4		

Assumptions	Evidence Required
Space will be provided in each kitchen to	Mandatory element:
store recyclable waste. It is assumed that	Provide table: Cat 5.1 – Supplementary
there will be a Local Authority collection	Information Sheet for Was 1 and Checklist
scheme.	IDPWhere 4 credits are sought:
	Detailed documentary evidence stating:
	• the location of internal and external
	storage
	• the number, types and sizes of internal
	and external storage
	AND
	A letter, leaflet, website or other published
	information from the Local Authority/waste
	scheme provider* describing;
	the types of waste collected
	the frequency of collection
	• if there will be pre or post collection
	sorting

Was 2 - Site Waste Management Plan

A SWMP plan including the monitoring of waste generated on site and the setting of targets to promote resource efficiency must e produced and implemented. The SWMP should also include procedures and commitments for minimising waste and/or commitments to sort, reuse and recycle construction waste.

Site Waste Management Plan	Mandator y Levels	Credit	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
Mandatory requirement met	All	Yes	Yes	Yes	Yes	Yes		
Minimising construction waste		1						
Minimising construction waste and diverting 50% of waste from landfill		2	3	3	3	3		
Minimising construction waste and diverting 85% of waste from landfill		3						

	Assumptions	Evidence Required
	A Site Waste Management Plan will be	A copy of the compliant SWMP containing
	implemented on this project. This is	the appropriate benchmarks, commitments
	mandatory for projects exceeding a build	and procedures for waste minimisation and
	cost of £300k. 85% of construction waste	diversion from landfill in line with the
-	will be diverted from landfill	criteria and with Checklists Was 2a, Was 2b
		and Was 2c
		OR
		Confirmation from the developer that the
		SWMP includes/will include benchmarks,
		procedures and commitments for
		minimising and diverting waste from landfill
		in line with the criteria and with Checklists
		Was 2a, Was 2b and Was 2c

Was 3 - Composting

A credit is awarded where individual home composting facilities are provided, or where a community/communal composting service, either run by the Local Authority or overseen by a management plan is in operation.

Composting Facilities	Credit	Maisonett	ø	Apt-Aff	Apt-Pri	House Pri	0	0
No composting facilities	0							
ndividual composting	1							
cilities	1	_						
Communal composting	1							
facilities	1	_						
Local Authority collection	1	1		1	1	1		
system	-	-	•					

Assumptions	Evidence Required
Southwark provides a composting collection	Detailed documentary evidence stating:
service for all units.	• the location and size of internal and
	external storage
	• that an information leaflet will be
	supplied
	 distance of storage from dwelling
	AND
	Completed Checklist IDP

Pollution

Pol 1 - Global Warming Potential

A credit is awarded where all insulating materials only use substances (in manufacture and installation) that have a GWP of less than 5.

Global Warming Potential	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0	
All insulants have a GWP of less than 5	1	1	1	1	1			
Some or none of the insulants have a GWP of	0			1				

Assumptions	Evidence Required
This credit will be achieved through the	Completed Checklist Pol 1 showing the
building materials specification to ensure	proposed insulation materials (or none) for
that no insulants with a GWP of more than	each element and whether they are foamed
5 are specified. This includes all insulation	using blowing agents or are unfoamed
materials in the building fabric and services.	(from table Cat 6.1)

Pol 2 - NOx Emissions

Credits are awarded on the basis of NOx emissions arising from the operation of the space and water heating system within the

aweiling.								
NOx Emissions	Credit Score		Malsonett e	Apt-Aff	Apt-Pri	House Pri	0	·
> 100 mg/kWh	0							
≤ 100 mg/kWh /Class 4 boiler	1		2	2	2	2		
≤ 70 mg/kWh / Class 5 boiler	2							
≤ 40 mg/kWh	3							
Default - no NOx emissions produced	3	_						

Assumptions	Evidence Required
This will be achieved by specifying low NOx	Detailed documentary evidence describing:
boilers in the communal heating system.	The primary and any secondary heating
This assumes that gas-fired boilers are to be	systems and flue type
used. If heat pumps or biomass systems are	• Dry NOX levels and/or boiler class of the
employed, these credits will not be	primary and any secondary heating systems
available.	Where detailed documentary evidence is
	not available at this stage;
	A letter of instruction to a
	contractor/supplier or a formal letter from
	the developer to the Code assessor giving
	the specific undertaking

Health & Wellbeing

Hea 1 - Daylighting

Credits are awarded for ensuring key rooms in the dwelling have high daylight factors (DF) and a view of the sky.

Daylight	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
Kitchen - 2% DF	1						
Living room, dining room and home office - 1.5% DF	1	1	1	1	1		
All key rooms - 80% view of sky	1						

Assumptions	Evidence Required
These credits will be varied throughout the	Copy of calculations as detailed in the
buildings as it depends on the location of	methodology to demonstrate:
the individual home, the size of individual	 Average daylight factor using the formula
windows and the distance of the window	described in the definitions section or
from obstructions. Full analysis of this will	computer simulation or scale model
be carried out as part of the Code of	measurements
Sustainable Homes Design Stage	• Position of the no-sky line and percentage
Assessment.	of area of the working plane that receives
	direct light from the sky
	Confirmation from the developer that the
	calculations accurately reflect the dwelling
	as designed.

Hea 2 - Sound Insulation

Credits are awarded where performance standards exceed those required in Building Regulations Part E. This can be demonstrated by carrying out pre-completion testing or through the use of Robust Details Limited.

		Ħ	<u>+</u>	-	Pri			Assumptions	Evidence Required
Sound Insulation	Credit	Maisonett e	t-Aff	Apt-Pri	se	0	0	The design is projected to exceed the	Where pre-completion testing will be
Performance Standard	ည် တိ	Jais	Apt.	Ap	House			requirement of the building Regulations by	carried out;
		2			1			5dB for Code level 4. This will be achieved	A letter from the developer to:
Airborne: 3db higher;	1							by using constructions that have been	Meet the relevant sound insulation
Impact 3db lower								previously sound tested to achieve these	performance levels
Airborne: 5db higher;	3	3	3	3	3			reductions. It may be necessary to involve	Use a Compliant Test Body to complete
Impact 5db lower		•	•	_	_			acoustic consultants and manufacturers in	testing
Airborne: 8db higher;	4							the development of specific details.	Where Robust Details will be used;
Impact 8db lower									Confirmation that the Robust Details
Detached dwelling	4								chosen will achieve the required
Separating walls/floor only									performance standards for sound insulation
between non habitable	3								1, 3
spaces									(as applicable)
									Confirmation that the relevant plots are
									registered with RDL (the Purchase
									Statement)

Hea 3 - Private Space

A credit is awarded for the provision of an outdoor space that is at least partially private. The space must allow easy access to all occupants.

Provision of Private Space	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
Yes	1	1	1	1	1		
No	0	1	1	1	1		

Assumptions	Evidence Required
Private Space in the form of private gardens	Evidence confirming:
will be provided for all houses. 1.5m2 per	• The number of bedrooms served by the
bedroom for private gardens or balconies,	outdoor space
1m per bedroom for shared gardens. Flats	That the outdoor space meets the
are to have private balconies.	minimum size requirements
	AND
	Completed Checklist IDP
	Where a shared outdoor space is provided
	evidence confirming:
	• The private space is accessible only to
	occupants of designated dwellings

Hea 4 - Lifetime Homes

Credits are awarded where the developer has implemented all of the principles of the Lifetime Homes scheme. Lifetime Homes is mandatory for Level 6.

Lifetime Homes Compliance	Mandator y Levels	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
All criteria will be met	6	4						
All criteria will be met and sloping site exemption for criteria 2 and/or 3 is applied.		3	4	4	4	4		

Assumptions	Evidence Required
It is proposed that all dwellings will comply	Confirmation that all 16 of the Lifetime
with all of the relevant elements of the	Homes design criteria are met or where an
Lifetime Homes checklist.	exemption from Lifetime Homes criteria 2
	and/or 3 is sought:
	• Confirmation from the developer that all
	other design criteria are met
	AND
	Detailed documentary evidence
	demonstrating access routes subject to
	steeply sloping gradients at pre
	develonment and completion

Management

Man 1 - Home User Guide

Credits are awarded where a simple guide is provided to each dwelling covering information relevant to the 'non-technical' home occupier, in accordance with the Code requirements.

Topics Covered by the Home User Guide	Credit Score	Maisonett e	Apt-Aff	Apt-Pri	House Pri	0	0
tional Issues and user is available in	2						
tional issues, Site and undings and user is available in ative formats	3	3	3	3	3		

Assumptions
A home user guide will be prepared for
every resident, this will describe in non
technical language how their home works,
it will provide advice on low energy
appliances and lifestyle, and information
about local amenities. It will be available in
other languages or formats on request.

Evidence Required onfirmation in the form of a letter from he developer or in the specification that he guide will be:

Supplied to all dwellings within the

• Be developed to the required standards as a minimum including a list of contents howing that the guide will cover all of the ssues required in Checklist Man 1 Part 1) Where a home user guide covering operational issues and issues relating to the ite and surroundings will be supplied: As above and including information covered in Checklist Man 1 Part 2

Man 2 - Considerate Constructors Scheme

Credits are awarded where there is a commitment to comply with best practice site management principles using either the Considerate Constructors Scheme or an alternative scheme.

Scheme	Credit Score	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
Considerate Constructors - score of 25-34 OR alternative scheme - 50% of optional requirements	1	_	2	_	_		
Considerate Constructors - score of 35-40 OR alternative scheme - 80% of optional requirements	2	2	2	2	2		

Assumptions	Evidence Required
The contractor building this scheme will be	For Considerate Constructors Scheme:
a member of this scheme and score 32	Specification clause or other confirmation
points or above for the development.	of commitment from the contractor or
	developer to comply with the Considerate
	Constructors Scheme and achieve formal
	certification under the scheme with either a
	pass score or a score of 32 points and above
	AND
	Confirmation that registration with the
	Considerate Constructor Scheme has taken
	place no later than the commencement of
	the construction phase

Man 3 - Construction Site Impacts

Credits are awarded where there is a commitment and strategy to operate site management procedures on site.

Construction Site Impacts	Credit Score	Maisonett e	Apt-Aff	Apt-Pri	House Pri	0	0
Procedures to cover 2 or more construction site impacts	1						
Procedures to cover 4 or more construction site impacts	2		2	2	2		

	5.1. 5
Assumptions	Evidence Required
The contractor will measure the impacts	Completed copy of Checklist Man 3 (signed
and set targets for site activities including	and dated) detailing the procedures that
water consumption and CO2 emissions.	will be employed to minimise construction
	site impacts.

Man 4 - Security

Credits are awarded for complying with Section 2 - Physical Security form Secured by Design

Security	Credit Score	Maisonett e	Apt-Aff	Apt-Pri	House Pri	0	0	This credit wi with the local Secured By De
Secured by Design Section 2 compliance	2		2	2	2			Secured by De
Secured by Design Section 2 non-compliance	0							

sign - New Homes.	
Assumptions	Evidence Required
his credit will be achieved by consulting	Detailed documentary evidence showing:
th the local police in accordance with the	• That an ALO/CPDA has been consulted
	with to ensure that the requirements of
	Section 2 – Physical Security from 'Secured
	by Design – New Homes' are met
	• A commitment to follow the advice
	provided by the ALO/CPDA

Ecology

Eco 1 - Ecological Value of Site

One credit is awarded for developing land of inherently low value.

Ecological Value of Site	Credit	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0	
Land has ecological value	0							
Land has low ecological value	1	0	0	0	0			

Assumptions	Evidence Required
The site is assumed to have ecological value	Where a suitably qualified ecologist is
and this credit cannot be achieved. (review	appointed;
of ecology information required)	A copy of a report or letter from the
	ecologist highlighting the information
	required as set out in the 'Code for
	Sustainable Homes Ecology Report
	Template'
	AND
	Detailed documentary evidence identifying
	the construction zone and how any areas of
	ecological value outside the construction
	zone will remain undisturbed in accordance
	with the ecologist's recommendations.

Eco 2 - Ecological Enhancement

A credit is awarded where there is a commitment to enhance the ecological value of the development site.

Ecological Enhancement	Credit	Maisonett	Apt-Aff	Apt-Pri	House Pri	0	0
All key and additional recommendations of ecologist's to be adopted	1	1	1	1	1		

Assumptions	Evidence Required
This credit will be achieved by the	A copy of the ecologist's report highlighting
appointment of a suitable qualified	the information required as set out in 'Code
Ecologist and then following the	for Sustainable Homes Ecology Report
recommendations of the Ecologists report.	Template'
	AND
	Detailed documentary evidence stating:
	• How the key recommendations and 30% of
	additional recommendations will be
	incorporated into the design
	The planting schedule of any species to be
	incorporated from suitably qualified
	ecologists recommendations

Eco 3 - Protection of Ecological Features

A credit is awarded where there is a commitment to enhance the ecological value of the development site.

Protection of Ecological Features	Credit	Maisonett e	Apt-Aff	Apt-Pri	House Pri	0	0
Features of ecological value are to be protected	1						
Features of ecological value will not be protected	0	0	0	0	0		
No ecological features	1						

Assumptions	Evidence Required
This credit cannot be achieved as the site	Detailed documentary evidence* confirming
has ecological value.	ecological features present and how they
	will be protected
	*Where compliance with the criteria is
	demonstrated by the relevant documents
	submitted to the Planning Authority which
	gained planning approval, these can be used
	as evidenc. Evidence is required where
	ecological features are being removed.

Eco 4 - Change of Ecological Value of Site

Credits are awarded where the change in ecological value has been calculated in accordance with the Code requirements.

		•	•					· ·					
		et	±	-=	<u>=</u>			Assumptions	Evidence Required				
Change of Ecological Value	edit ore	e son	¥	Apt-Pr	use		0	This credit can be achieved by increasing the	Where the advice of an ecologist is sought,				
of Site	င် လ	<u>5</u>	Αp	Αp	로							number of species by planting suitable	the following detailed documentary
		2						species in gardens and in public landscaped	evidence must be provided:				
Minor negative change :	1							areas.	Code for Sustainable Homes Ecology Repor				
between -9 and ≤ -3									Template completed by the ecologist				
Neutral: > -3 and ≤ 3	2	2	-	-	٠,				AND				
Minor enhancement: >3 and	2	2	-	2	~				Written confirmation from the developer				
≤9	'												
Major enhancement: >9	1								confirming how the ecologist's				
viajor cimanecinent. 23	4								recommendations will be implemented				
									including a planting schedule				

Eco 5 - Building Footprint

Credits are awarded where t	he ratio	of combi	ned floo	or area o	of all dv	vellings	on the s	ite to their footprint is:	
		Ħ	9 -		=			Assumptions	Evidence Required
Building Footprint	Credit	e 0	¥	7	Se			These credits can be achieved as the	Calculation of the building footprint
	င် အ	<u>a</u>	A P	₽	로			average height of the buildings will be	ratio, stating the Net Internal Floor Area
		2						greater than three storeys.	(NIFA) and the Net Internal Ground Floor
Houses 2.5:1 or flats 3:1	1								Area (NIGFA)
Houses 3:1 or flats 4:1	2	2	2	2	2				
Houses and flats weighted									
(2.5:1 and 3:1)	1								
Houses and flats weighted									
(3:1 and 4:1)	2								

3.4 SUSTAINABILTY STANDARDS BREEAM PRE-ASSESSMENT FOR THE EXTRA CARE BLOCK 1

BREEAM New Construction is a performance based assessment method and certification scheme for new buildings. The primary aim of BREEAM New Construction is to mitigate the life cycle impacts of new buildings on the environment in a robust and cost effective manner. This is achieved through integration and use of the scheme by clients and their project teams at key stages in the design and procurement process.

BREEAM New Construction can be used to assess and rate the environmental impacts arising from a newly constructed building development, and its ongoing operation, at the following life cycle stages:

- 1. Design Stage (DS) leading to an Interim BREEAM certified rating
- 2. Post-Construction Stage (PCS) leading to a Final BREEAM certified rating

The BREEAM rating benchmarks for new construction projects assessed using the 2011 version of BREEAM are as follows:

BREEAM Rating	% score
Outstanding	≥ 85
Excellent	≥ 70
Very good	≥ 55
Good	≥ 45
Pass	≥ 30
Unclassified	< 30

For planning, a BREEAM 2011 New Construction pre-assessment has been carried out. This Extra Care building will be assessed using the BREEAM Multi-residential scheme and has been set a target rating of 'Very Good'. The pre-assessment summary shows the credits assumed achievable at this stage, having taken into consideration the current architectural information and discussed the latest designs with the architect. The current predicted score is 64.39%. There may be changes to the BREEAM credits targeted as the design progresses but the overall minimum score of 55% and associated rating of 'Very Good' will be maintained.

Artists Impression of Block 1 from Westmoreland Road



BREEAM*

BREEAM 2011 New Construction Assessment Report: Rating & Key Performance Indicators

This assessment and indicative BREEAM rating is not a formal certified BREEAM assessment or rating and must not be communicated as such. The score presented is indicative of a buildings potential performance and is based on a simplified pre-formal BREEAM assessment and unverified commitments given at an early stage in the design process.

Overall Indicative Building Performance

Building name	First Development Site Extra Care Block 1
Indicative building score (%)	64.39%
Indicative BREEAM rating	Pre-Assessment result indicates potential for BREEAM Very Good rating
Indicative minimum standards level achieved	Pre-Assessment result indicates the minimum standards for Very Good level

Summary of Indicative Building Performance by Environmental Section and Assessment Issue

	Indicative no.	credits	contribution to	
	credits available	Achieved	score	Minimum standards level achieved
Man01 Sustainable Procurement	8.0	6.0	3.27%	Pre-Assessment result indicates the minimum standards for Outstanding level
Man02 Responsible Construction Practices	2.0	2.0	1.09%	Pre-Assessment result indicates the minimum standards for Outstanding level
Man03 Construction Site Impacts	5.0	4.0	2.18%	N/A
Man04 Stakeholder Participation	4.0	3.0	1.64%	Pre-Assessment result indicates the minimum standards for Outstanding level
Man05 Life cycle cost and service life planning	3.0	2.0	1.09%	N/A
Total indicative environmental section performance	22.0	17.0	9.27%	
th & Wellbeing				
Hea01 Visual Comfort	3.0	2.0	1.88%	Pre-Assessment result indicates the minimum standards for Outstanding level
Hea02 Indoor Air Quality	4.0	1.0	0.94%	N/A
Hea03 Thermal Comfort	2.0	2.0	1.88%	N/A
Hea04 Water Quality	1.0	1.0	0.94%	Pre-Assessment result indicates the minimum standards for Outstanding level
Hea05 Acoustic Performance	4.0	1.0	0.94%	N/A
Hea06 Safety and Security	2.0	1.0	0.94%	N/A
Total indicative environmental section performance	16.0	8.0	7.50%	
ву				
Ene01 Reduction of CO2 Emissions	15.0	6.0	4.22%	Pre-Assessment result indicates the minimum standards for Excellent level
Ene02 Energy Monitoring	1.0	1.0	0.70%	Pre-Assessment result indicates the minimum standards for Outstanding level
Ene03 External Lighting	1.0	1.0	0.70%	N/A
Ene04 Low and Zero Carbon Technology	5.0	2.0	1.41%	Pre-Assessment result indicates the minimum standards for Outstanding level
Ene05 Energy Efficient Cold Storage	N/A	N/A	N/A	N/A
Ene06 Energy Efficient Transportation Systems	2.0	2.0	1.41%	N/A
Ene07 Energy Efficient Laboratory Systems	N/A	N/A	N/A	N/A
Ene08 Energy Efficient Equipment	2.0	2.0	1.41%	N/A
Ene09 Drying Space	1.0	1.0	0.70%	N/A
Total indicative environmental section performance	27.0	15.00	10.56%	
nsport				
Tra01 Public Transport Accessibility	3.0	3.0	2.67%	N/A
Tra02 Proximity to Amenities	2.0	2.0	1.78%	N/A
Tra03 Cyclist facilities	1.0	1.0	0.89%	N/A
Tra04 Maximum Car Parking Capacity	2.0	2.0	1.78%	N/A
Tra05 Travel Plan	1.0	1.0	0.89%	N/A
Total indicative environmental section performance	9.0	9.0	8.00%	
ter				
Wat01 Water Consumption	5.0	3.0	2.00%	Pre-Assessment result indicates the minimum standards for Outstanding level
Wat02 Water Monitoring	1.0	1.0	0.67%	Pre-Assessment result indicates the minimum standards for Outstanding level
Wat03 Water Leak Detection and Prevention	2.0	1.0	0.67%	N/A
Wat04 Water Efficient Equipment	1.0	1.0	0.67%	N/A
Total indicative environmental section performance	9.0	6.0	4.00%	
terials				
Mat01 Life Cycle Impacts	6.0	3.0	2.88%	N/A
Mat02 Hard Landscaping and Boundary Protection	1.0	1.0	0.96%	N/A
Mat03 Responsible Sourcing	3.0	1.0	0.96%	Pre-Assessment result indicates the minimum standards for Outstanding level
Mat04 Insulation	2.0	2.0	1.92%	N/A
Mat05 Designing for Robustness	1.0	1.0	0.96%	N/A
Total indicative environmental section performance	13.0	8.00	7.69%	
ste				
Wst01 Construction Waste Management	4.0	3.0	3.75%	Pre-Assessment result indicates the minimum standards for Outstanding level
Wst02 Recycled Aggregates	1.0	0.0	0.00%	N/A
Wst03 Operational Waste	1.0	0.0	0.00%	Pre-Assessment result indicates the minimum standards for Very Good level
Wst04 Speculative Floor and Ceiling Finishes	N/A	N/A	N/A	N/A
Total indicative environmental section performance	6.0	3.00	3.75%	
d Use and Ecology				
LE01 Site Selection	2.0	1.0	1.00%	N/A
LE02 Ecological Value of Site and Protection of Ecological Features	1.0	1.0	1.00%	N/A
LE03 Mitigating Ecological Impact	2.0	2.0	2.00%	Pre-Assessment result indicates the minimum standards for Outstanding level
LE04 Enhancing Site Ecology	3.0	3.0	3.00%	N/A
LE05 Long Term Impact on Biodiversity	2.0	2.0	2.00%	N/A
Total indicative environmental section performance	10.0	9.00	9.00%	
ution				
Pol01 Impact of Refrigerants	3.0	1.0	0.77%	N/A
Pol02 NOx Emissions	3.0	0.0	0.00%	N/A
Pol03 Surface Water Run off	5.0	3.0	2.31%	N/A
Pol04 Reduction of Night Time Light Pollution	1.0	1.0	0.77%	N/A
	1.0	1.0	0.77%	N/A
Pol05 Noise Attenuation				
Pol05 Noise Attenuation Total indicative environmental section performance	13.0	6.00	4.62%	
	13.0	6.00	4.62%	
Total indicative environmental section performance	13.0 10.0	0.0	4.62%	N/A

AYLESBURY REGENERATION

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