

# **De Metz Forbes Knight Architects**

# 44 Westbere Road Camden, London NW2

# Sustainability Statement

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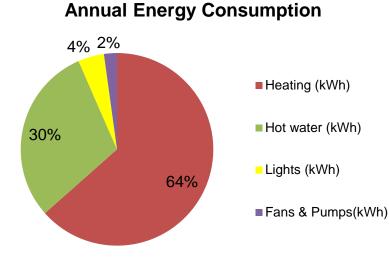
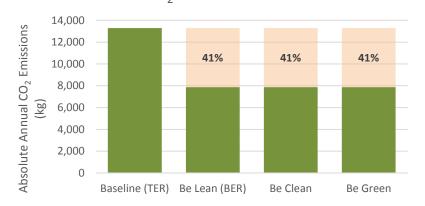


Figure 1.01 - Annual Energy Consumption



Annual CO<sub>2</sub> Emissions Reduction



	kg CO₂ pa	kgCO2/m2	Reduction	Cumulative % Reduction
Baseline (TER)	13286	46.1		-
Be Lean (BER)	7877	27	5409	41%
Be Clean	7877	27.4	5409	41%
Be Green	7877	27.4	5409	41%

Figure 1.0.3 - Annual CO<sub>2</sub> Emissions

### **Executive Summary** 1.

Low environmental impact will be an essential feature of the design of the proposed 44 Westbere Road development. This Statement outlines the development's approach to sustainability, energy efficiency and renewable energy strategies in order to meet the targets set out in the guidance from Camden Borough Council.

The planning application proposals at 44 Westbere Road are to increase the existing unit into a total of five units, comprising of one and two bedrooms.

To demonstrate the wider sustainability of the scheme, the Building Research Establishment's assessment methodologies have been applied to the proposed redevelopment. The BREEAM Domestic Refurbishment scheme was recently introduced by the BRE and replaces Ecohomes. It considers the broad environmental concerns of climate change, pollution, impact on occupants and the wider community.

A preliminary assessment has been conducted for the development, showing how the 'Very Good' standard can be achieved. The key sustainable features identified for the redevelopment and included in the preliminary BREEAM assessment are:

- passive design measures and efficient systems will • reduce the development's energy consumption rates
- thermal insulation and air tightness levels will be improved beyond the Building Regulation standards
- the dwellings will be naturally ventilated, reducing the • need for comfort cooling and mechanical systems
- natural day lighting will improve occupancy comfort and reduce the requirement for lighting
- The London heat map indicates that there is currently no opportunities for connection to an existing or proposed district heating network

- •
- ٠
- •
- ٠ and reduce wastage
- nuisance or pollution

the limited size of the development thermal load and the mismatch with its electrical profile suggest that CHP is not viable for this development

an extensive range of low and zero carbon technologies have been considered in terms of providing a proportion of the development's energy demand. The results indicated that for planning and operational reasons, none of the investigated technologies are viable for meet a proportion of the building's energy demands.

the combination of proposed energy efficient measures result in a reduction in CO<sub>2</sub> emission of 41%

all timber used on site will be purchased from responsible sources such as FSC approved vendors

materials selection to take into account their overall environmental impacts. Achieving "A" ratings from the BRE Green Guide to Specification, where possible.

recycling facilities will be provided for all occupants to reduce waste during operation

water use will be minimised by the specification of efficient taps, shower heads, dual flush toilets and low water use appliances

water metering will be installed to identify consumption

all construction on site will be managed in an environmentally sound manner in terms of resource use, storage, waste management, and potential sources of

cycling will be encouraged by providing dedicated cycle storage spaces for residents.



Figure 2.0.1. – Existing Building

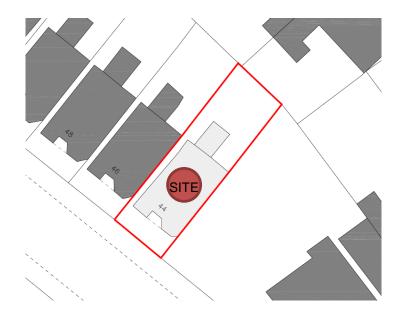


Figure 2.0.2. - Proposed Site Location

### Introduction 2.

This Sustainability Statement has been prepared in support of the planning application for the proposed residential redevelopment at 44 Westbere Road, London, NW2. It aims to meet the energy and climate change requirements of the London Borough of Camden and the Greater London Authority.

The format of the statement is intended to reflect and respond to the issues raised in the GLA's 'Spatial Development Strategy for Greater London' - the 'London Plan'.

The principal objectives are to reduce the site's contribution to the causes of climate change by minimising the emissions of CO<sub>2</sub>, by reducing the site's needs for energy and providing some of the requirement by renewable/sustainable means. Issues such as water, waste, biodiversity, etc. have also been addressed in the study.

To guide and benchmark this process, the Building Research Establishment's BREEAM Domestic Refurbishment methodology has also been used to assess the development. A preliminary assessment indicating that as a minimum a "Very Good" rating will be achieved (see appendix B). BREEAM considers the broad environmental concerns of climate change, pollution, impact on residents and the wider community. It balances these with the need for high-quality, safe and healthy internal living and working environment. These standards go beyond the requirements of the Building Regulations.

This Sustainability Statement forms a checklist of the sustainable initiatives considered for the proposed development. Each of the proposed initiatives is assessed on the relative sustainability potential, in addition to a "rule of thumb" financial/pay back implication, and suitability to this particular site.

# 2.1 Outline Description of Development

flats.

The site is located in central London within close proximity to the local shops and tube stations. The development is to provide a number of one and two bedroom apartments.

The accommodation schedule has been used as the basis for the energy assessment:

UNITS	Beds	People	NIA (m <sup>2</sup> )
Flat 1	2	4	95
Flat 2	1	1	39
Flat 3	2	3	59
Flat 4	1	1	37
Flat 5	1	2	58
TOTAL	7	11	288

The proposals for the redevelopment of Westbere Road involve changing the existing house into five new residential

# 3. Planning Policy

The National Planning Policy Framework (NPPF) was published in March 2012, which states a clear presumption in favour of sustainable development. The NPPF supports the transition to a low carbon future in a changing climate, taking full account of flood risk and coastal change, and encourage the reuse of existing resources, including conversion of existing buildings, and encourages the use of renewable resources.

The NPPF replaces PPS22 and in Section 10 outlines its energy and climate change policies. To support the move to a low carbon future, local planning authorities should:

- Plan for new development in locations and ways which reduce greenhouse gas emissions;
- Actively support energy efficiency improvements to • existing buildings; and
- When setting any local requirement for a building's sustainability, do so in a way consistent with the Government's zero carbon buildings policy and adopt nationally described standards.

In determining planning applications, local planning authorities should expect new developments to:

- comply with adopted Local Plan policies on local requirements for decentralised energy supply unless it can be demonstrated that this is not feasible or viable; and
- take account of landform, layout, building orientation, ٠ energy massing and landscaping to minimise consumption;
- have a positive strategy to promote energy from renewable and low carbon sources;
- identify opportunities where development can draw its energy supply from decentralised, renewable or low carbon energy supply systems and for co-locating potential heat customers and suppliers.

The key focus of the NPPF is to support local and regional planning authorities.

## 3.1 The London Plan

London Plan policy 5.2 requires that major developments meet carbon dioxide emissions reduction. Up to 2016 this emissions reduction is 35% against Part L Building Regulations. Where evidence demonstrates that this target cannot be achieved on-site, the policy allows for any shortfall to be provided off-site or through a cash in lieu contribution. Contributions to the borough will secure the delivery of carbon dioxide savings elsewhere in the borough.

The Mayor's Sustainable Design and Construction SPD states that boroughs should develop and publish a price for carbon dioxide based on either: a nationally recognised carbon dioxide pricing mechanism; or the cost of reducing off-setting carbon dioxide emissions across the borough.

The key requirements of the London Plan (2011) for new developments are:

Policy 5.2 - requires that major developments achieve a 35% improvement over the 2013 Building Regulation CO<sub>2</sub> Emission Target

Policy 5.6 - requires all major developments to evaluate the feasibility of connecting to existing or proposed district heating networks and where no opportunity existing consider a site wide Combined Heat and Power (CHP) systems.

Policy 5.7 - requires that all major developments seek to reduce their CO<sub>2</sub> emissions by at least 20% through the use of onsite renewable energy generation wherever feasible.

### 3.2 London borough of Camden

Camden Planning Guidance 3 Sustainability, states that where the London Plan carbon reduction target cannot be met on-site, they may accept the provision of measures elsewhere in the borough or a financial contribution which will be used to secure the delivery of carbon reduction measures elsewhere in the borough.

Camden Council's planning guidance addresses sustainable development through a number of policies. These policies coincide with the areas addressed through the BREEAM benchmarking

relevant Camden Council policies are:

- CS13 Tackling climate change through promoting higher environmental standards
- DP22 Promoting sustainable design and construction
- DP23 Water

Promote low- and zero-carbon energy generation through:

- energy systems.
- Implementing a network of decentralised heat and energy facilities that connect into a heat and power network.
- regional network.
- Exploring the use of waste-to-energy facilities, particularly in the east of the borough, to support the borough's waste management and recycling targets.
- systems.
- Supporting development that uses intelligent design to make use of renewable-energy technologies.



- process, which will be discussed in subsequent sections. The

- Safeguarding existing renewable energy decentralised
  - Promoting the development of new decentralised energy facilities that have the potential to link into a wider sub-

Working with partners inside and outside the borough to explore ways of implementing decentralised energy





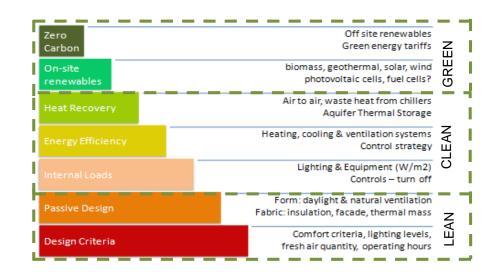


Figure 4.0.1 – Cundall's "Steps to low carbon"

### **Energy Strategy** 4.

The designs of the proposed dwellings have been developed to reduce their annual energy consumption, whilst providing energy in the most environmentally friendly way to reduce their annual CO<sub>2</sub> footprints. In order to achieve this, Cundall's "Steps to low carbon" methodology has been applied.

## 4.1 Passive Design

Substantial reductions in energy usage for the scheme have been achieved through consideration of the passive elements of the design, together with improved occupancy comfort. The aim for the design of the proposed development is to optimise the passive building elements, where practical and hence reduce the energy consumption associated with the mechanical systems, whilst maintaining a balance between a range of requirements and accounting for factors such as site constraints and acoustic considerations.

#### **Building Envelope** 4.1.1

As the existing building is being converted into a number of new dwellings, the existing facades will be thermally enhanced where possible. New internal dry lining to the external walls, increased insulation levels in the roofs and floors and new energy efficient windows will be considered.

All enhanced and new thermal elements will therefore be specified to achieve the following area weighted U-values to reduce the heat losses though the building's fabric:

Detail	Design	Base case
Ground floor average U-value	0.22W/m <sup>2</sup> K	0.60W/m <sup>2</sup> K
External wall average U-value	0.28W/m <sup>2</sup> K	1.00W/m <sup>2</sup> K
Roof average U-value	$0.18W/m^2K$	1.00W/m <sup>2</sup> K
Window U-value (including frame)	1.80W/m <sup>2</sup> K	5.60W/m <sup>2</sup> K
Glazing total solar transmission	60%	60%
Y-value	0.15	0.15
Air permeability @ 50 Pascals	7.0m <sup>3</sup> /hr/m <sup>2</sup>	15.0m <sup>3</sup> /hr/m <sup>2</sup>

## 4.1.2 Accredited Construction Details

All new architectural details will ideally be assessed with their thermal bridging  $\Psi$  values calculated. Where this is not possible, all architectural details should be in accordance with the enhanced construction details listed on the Energy Trust's website or as an absolute minimum as per the requirements of Accredited Construction Details document.

Accredited Construction Details (ACD's) have been developed to assist the construction industry to comply with the performance standards in Part L of the Building Regulations. They focus on issues concerning insulation continuity and airtightness and suggest a common approach to design, construction and testing methodology, and general improvements of the process.

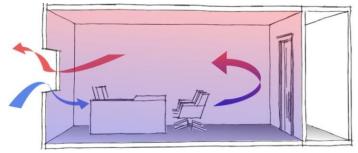
### 4.1.3 Air Permeability

Although not required by the regulations an air pressure test will be carried out on the new dwellings in order to determine their air leakage rates and any remedial actions taken to improve it. An air leakage rate of 7m<sup>3</sup>/hr/m<sup>2</sup> at 50Pa will be targeted for the development in comparison with the Building Regulation minimum standards for new dwellings of 10m<sup>3</sup>/hr/m<sup>2</sup> at 50Pa.

Good air tightness will be achieved by prefabrication of a number of key building components under factory conditions, robust detailing of junctions, good building practices on site and making good of any existing details.

### 4.1.4 Ventilation

The new dwellings will be naturally ventilated via the existing window openings. By providing fresh air all year around, this will mitigate heat gains in summer, save energy related to fans and pumps that would otherwise be required, and removes the associated annual CO<sub>2</sub> emissions.



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## 4.2 Energy Efficient Systems & Appliances

After assessing the contribution of the passive elements to the overall energy balance, the aim is to further reduce CO<sub>2</sub> emissions by selecting efficient mechanical and electrical systems and efficient controls to manage the energy used during operation. On the basis of good practice the following principles will be adopted throughout the proposed development where possible:

## 4.2.1 Eco-Labelled Goods

As lights and appliances account for about a third of the CO<sub>2</sub> emissions in dwellings, where domestic appliances are installed energy efficient units will be incorporated, including A and A+ rated appliances.



Above: White goods efficiency rating

## 4.2.2 Low-Energy Lighting

To reduce the energy consumption associated with artificial lighting, 100% of all internal lighting fittings in each dwelling will be dedicated energy efficient light fittings\*:

\* Fittings that comprise the lamp, base, control gear, and an appropriate housing, reflector, shade or diffuser. The fitting must be dedicated in that it must be capable of only accepting lamps having a luminous efficacy greater than 40 lumens per circuit Watt. The fixing must be permanently fixed to the ceiling or wall.

## 4.2.3 External Lighting

All external lighting within the development will be provided by dedicated energy efficient fittings.

All security light fittings will be designed for energy efficiency and will be adequately controlled such that all burglar security lights have a maximum wattage of 150W, movement detecting control devices (PIR) and daylight cut-off sensors.

## 4.2.4 HVAC Plant Efficiencies

The design team have exceeded the minimum requirements of the domestic HVAC guide. It provides guidance on the means of complying with the requirements of both Part L1b of the Building Regulations for conventional space heating systems, hot water systems ventilation systems.

### 4.2.5 Waste Water Heat Recovery

The showers in the development will be specified with waste water heat recovery units that allow a proportion of the heat that is usually lost along with the discharged shower water to be recovered and used to heat the incoming cold mains into the shower inlet. This will be integrated into the shower tray.



### Above: Shower water heat recovery

This reduces the amount of hot water produced by the boiler required for each shower, reducing the energy consumption of the hot water boiler.

## 4.2.6 Energy metering

Metering of the energy uses within the development separately, will help the building users identify areas of increased consumption and highlight potential energysaving measures for the future, hence reducing the

readings.



# 4.3 Estimated Annual Energy Consumption

Individual energy assessments have been carried out on a range of dwelling types to determine their estimated energy consumption and associated CO<sub>2</sub> emissions, using the SAP methodology.

The energy assessments have been carried out for a baseline case with no enhancements to the existing building and the proposed scheme with the aforementioned passive and energy efficient measures. Figure 4.3.1. outline the design parameters used in the base case and proposed models.

The analysis indicates that the proposed dwellings are all performing significantly better than base case and achieving an area weighted improvement for the development of 41% (see Figure 4.3.3).

All SAP calculations have been carried out using the approved software Elmhurst Energy and the Part L1B methodology.

associated annual CO<sub>2</sub> emissions from these systems. All gas and electrical supplies to each dwelling will be metered using smart meters to enable residents and tenant to be responsible for their own consumption and hence CO<sub>2</sub> emissions. There will be a central display area for tenants and utility companies to view the meter



## 4.3.1 Building Fabric Performance

Detail	Base case	Design
Ground floor average U-value	0.60W/m <sup>2</sup> K	0.22W/m <sup>2</sup> K
External wall average U-value	1.00W/m <sup>2</sup> K	0.28W/m <sup>2</sup> K
Roof average U-value	1.00W/m <sup>2</sup> K	0.18W/m²K
Window U-value (including frame)	5.60W/m <sup>2</sup> K	1.80W/m²K
Glazing total solar transmission	60%	60%
Y-value	0.15	0.15
Air permeability @ 50 Pascals	15.0m <sup>3</sup> /hr/m <sup>2</sup>	7.0m <sup>3</sup> /hr/m <sup>2</sup>

Detail	Base case	Design		
Heating type	Combi boilers	Combi boilers		
Heating fuel	Natural gas	Natural gas		
Gross boiler seasonal efficiency	90.00%	90.00%		
Boiler compensator	Load	Load		
Heat emitters	Radiators	Radiators		
Heating system controls	Time, temp. & TRVs	Time, temp. & TRVs		
DHW cylinder volume (per flat)	n/a	n/a		
Low energy light fittings	none	100%		
Hot water daily usage	> 125 l/p/day	< 125 l/p/day		

Figure 4.3.2 – Building Services

#### **Area Weighted Results** 4.3.3

Area Weighted Results	Base	case	Design					
Area Weighted Results	Absolute	per sqm	Absolute	per sqm				
Heating (kWh)	42286	150	22471	79.5				
Hot water (kWh)	11410	40	11071	39.2				
Lights (kWh)	554	2	1584	5.6				
Fans & Pumps(kWh)	808	3	808	2.9				
Total Energy (kWh)	562	2	358	1.2				
DER (kgCO <sub>2</sub> )	46		27					
Improveme	Improvement (%)							

Figure 4.3.3 – Annual CO<sub>2</sub> Emission

# Figure 4.3.1 – Building Fabric Inputs 4.3.2 Fixed Building Services

# 4.4 Decentralised Energy Networks

The feasibility of connecting to an existing or proposed district network has been investigated for the site in accordance with Policy 5.6 of the London Plan.

The London Heat Map (www.londonheatmap.org.uk) indicates that there are no existing or proposed district heating networks in or around the site and site is not in an decentralised opportunity area, as shown in the image below (purple oval).

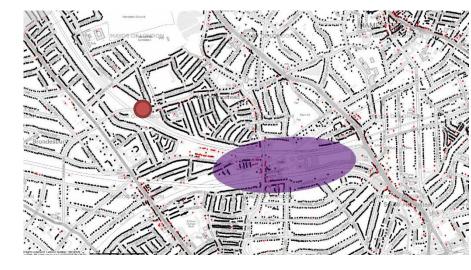
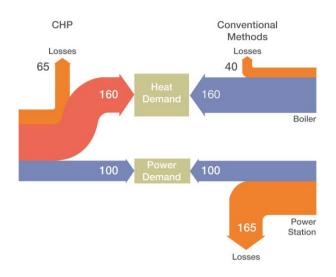


Figure 4.4.1 – London Heat Map of the Surround Areas

	Absolute kgs	Kg per sqm
Baseline CO2 Emissions (kg)	13035	45
Design CO2 Emissions (kg)	7734	27
35% renewables target (kg)	1547	5

### **Combined Heat & Power (CHP)** 4.5

investigated.



The development's heat load is predominately associated with its heating requirement, with peaks in the morning and evening. Even if substantial hot water cylinders were incorporated into the design to' level out' the peaks in order to increase the operational hours of the system, the base heat load for the 5 dwellings is not sufficient to support the efficient operational of a CHP system.

The building is also in an air quality management zone and the running a CHP will have higher NOx and PM10 particles compared to a gas boiler. Therefore CHP is not considered viable for the proposed development.

In accordance with the Decentralised Energy Hierarchy in Policy 5.6 the feasibility of a site wide CHP network has been

Figure 4.5.1 – CHP Efficiency Diagram

## 4.6 Low and Zero Carbon Energy Sources

Policy 5.7 of the London Plan requires that all major developments seek to reduce their  $CO_2$  emissions by at least 20% through the use of onsite renewable energy generation wherever feasible.

This equates to a 2.5 tonnes target for the development, based on the estimated energy consumption rates and associated  $CO_2$  emissions from the SAP result:

The following technologies have been considered for supplying a proportion of each dwelling's energy demand (a full summary table can be seen in Appendix B). The feasibility of each of the energy sources listed has been assessed with regard to the potential contribution each could make to supply a proportion of the dwelling's delivered energy requirement, whilst considering the technical, planning and financial issues.

## 4.6.1 Wind Turbines

The output from wind turbines are highly sensitive to wind speed. Hence it is essential that turbines should be sited away from obstructions, with a clear exposure or fetch for the prevailing wind.

In urban environments it is difficult to achieve high wind speeds that would make the operation of turbines viable, unless they are located at a site where there is locally high wind speed or located on the roof of tall buildings, where obstructions and surrounding buildings would not interfere with the wind flow.

The urban location of the site coupled with the adjacent buildings will result in a turbulent flow regime across the site. As such it is not proposed to include wind turbines as part of the development.

## 4.6.2 Photovoltaics

Photovoltaic solar cells convert solar energy directly into electricity. The cells consist of two layers of silicon with a chemical layer between. The incoming solar energy charges the electrons held within the chemical. The energised electrons move through the cell into a wire creating an electrical current.

The advance of photovoltaic cells is once they are installed they require minimal maintenance over their operational life and have no primary fuel requirements However, the proposed roof structure has been design to be in keeping with the local styles, which will preclude the use of PV cells given the dorma style windows and other rooflights.

Additionally the building orientation on the site is pre-defined with the front roof facing South-West and is unsuitable for PV collectors as rooflights are currently being proposed. The rear roof faces North-East and as such is not suitable.

## 4.6.3 Solar Thermal

Solar thermal collectors utilises solar radiation to heat water for use in water heating of a building. The optimum orientation for a solar collector in the UK is a south facing surface, tilted at an angle of 30° from the horizontal.

Solar collectors are typically designed to meet a development's base heat load, associated with its domestic hot water requirements. For residential development these usually equates to 60-70% of the total DHW annual load, with the natural gas-fired boilers meeting the remainder of the load.

However, as previously stated the building orientation makes the inclusion of solar thermal collectors unviable.

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## 4.6.4 Biomass Heating

Although the development's thermal load profile suggests that a biomass boiler could operate as a lead boiler in a modular arrangement with a number of conventional gas-fired boilers and provide a significant reduction in its CO<sub>2</sub> emissions, biomass boilers are not recommended for the proposed development.

The use of biomass would require a single plant room to serve all of the flats and they require significant space for storage and delivery of fuel which generally does not suit an existing building. They have higher particulate emissions than gas boilers which typically raises concerns with the Environment Planning as central London suffers from poor air quality. Therefore biomass boilers have not be considered feasible for the proposed re-development.

# 4.6.5 Air Source Heat Pumps (ASHP)

Air source heat pumps exchange heat between the outside air and a building to provide space heating in winter and cooling in the summer months. The efficiency of these systems are inherently linked to the ambient air temperatures. In winter the system is less efficient when ambient air temperatures are lower.

Heat pumps supply more energy than they consume, by extracting heat from their surroundings. Heat pumps can supply as much as 3kW of heat output for just 1kW of electrical energy input. They can also be used to provide cooling, however the development has been design to be natural ventilated in summer negating the requirement for cooling on site.

They are most efficient when they work at lower temperatures, typically around 40°C. As the output temperature increases above this the efficiency of the system drops off. Therefore, as DHW is required at 60-65°C, two system would need to be installed if a heat pump system was considered; a conventional LTHW / CHP system for the DHW and either a under floor heating system for space heating or a heating coil on the MVHR which feeds off the heat pumps.

There is insufficient space available to incorporate five separate heating systems with separate hot water generators. Furthermore the system only offers a 3.4% CO<sub>2</sub> emission saving if it achieves a heating seasonal efficiency of 2.5. Recent studies have found that most installations in the UK are only achieving CSoP of 2-3. Hence a ASHP may actually result in an increase in CO<sub>2</sub> emissions and have therefore not been considered any further.

## 4.6.6 Ground Source Heat Pumps (GSHP)

Ground sourced heat pumps extract heat from the ground and pump it into a building to provide space heating and to pre-heat

domestic hot water. In the summer months this process can be reversed, rejecting heat to the ground, to meet the cooling requirements of a building.

GSHPs relies on the stable temperature of the ground of between 10-14°C. In winter when the ambient air temperatures are below this ground source heat pumps have higher CoPs then air source heat pumps (as there is more energy in the ground).

GSHP systems can either extract energy through closed loops of pipework buried in the ground or from open loop system using natural aquifers in the ground. For closed loop systems the pipework or ground loop carrying the refrigerant/water can be laid horizontally or vertically.

GSHP systems only really work when there is a reasonably balanced heat and cooling requirement, so as not to heat up or cool down the ground around the piles. As the development has no cooling requirements and it not feasible to install boreholes under an existing building this technology is not considered viable.



### **Proposed Energy Strategy** 4.7

In accordance with the London Borough of Camden's Planning requirements and the GLA's London Plan the following energy strategy has been developed:

### Be Lean

The building envelope will be designed to perform significantly better than the Building Regulation standards, with low U-values, accredited construction details and low design air leakage rates the building's space heating load will be significantly reduced.

### Be Clean

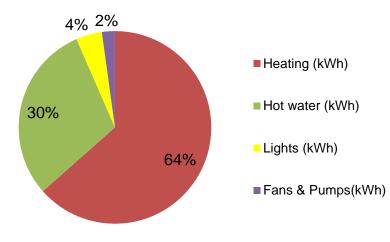
The London Heat map indicates there is no opportunity to connect to an existing or proposed district heating network, in accordance with Policy 5.6. Additionally the development's base heat load is not sufficient to support the efficient operation of a community CHP system, as there are only 5 dwellings being proposed.

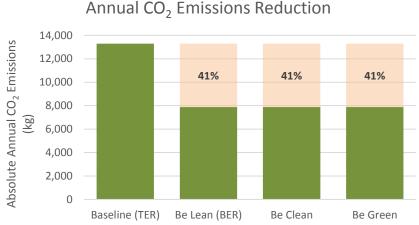
## Be Green

An extensive range of low and zero carbon technologies have been considered in terms of providing a proportion of the development's energy demand. The results indicated that for planning and operational reasons, none of the investigated technologies are viable for meet a proportion of the building's energy demands.

## Summary

The combination of proposed energy efficient measures result in a reduction in CO<sub>2</sub> emissions of 41%.





	kg CO <sub>2</sub> pa	kgCO2/m2	Reduction	Cumulative % Reduction
Baseline (TER)	13286	46.1		-
Be Lean (BER)	7877	27	5409	41%
Be Clean	7877	27.4	5409	41%
Be Green	7877	27.4	5409	41%

# Annual Energy Consumption

## Figure 4.7.1. - Policy 5.2 Annual Energy Consumption

## Figure 4.7.2. - Policy 5.2 The Energy Hierarchy

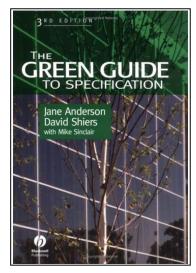
### **Materials** 5.

Building and construction activities worldwide consume 3 billion tons of raw material each year, which account for approximately 50% of total global consumption. Using green/sustainable building materials and products promotes conservation of dwindling nonrenewable resources. In addition, integrating sustainable building materials into building projects can help reduce the environmental impacts associated with the extraction, transport, processing, fabrication, installation, reuse, recycling, and disposal of these source materials.

The aim for the proposed development will be for its overall environmental impact to be minimised through the specification of sustainable materials and components.

#### **Environmental Impact of Materials** 5.1

New materials with low overall environmental impact will be chosen and advice from the Green Guide to Specification will be taken into consideration for the selection.. The Green Guide rates the environmental impact of different materials and components, taking into account factors like toxicity, ozone depletion, ease of recycling, waste disposal etc. Where viable, at least 80% (by area) of the new main elements in the building, fabric & building services insulation should be specified to achieve the best performing "A" and "A+" ratings from the Green Guide.



#### Sustainable Timber 5.2

All timber used for basic or finishing building elements in the scheme will be sourced from responsibly managed and sustainable forests or plantations. Such timber products are the only truly renewable construction material in common use and growing trees also absorb and fix CO<sub>2</sub>. Forests can also provide the habitat for a wide variety of plant and animal life, preserving important ecology and promoting biodiversity



#### Locally Sustainable Materials 5.3

A building that is truly sustainable must be constructed using locally sourced, sustainable materials i.e. materials that can be supplied without any adverse effect on the environment. Therefore, where practicable, materials should be sourced from local suppliers, reducing the environment impacts and CO<sub>2</sub> emissions associated with transportation to the site.

### 5.4 **Recycled Materials**

The existing building's structure and part of its facade will be retained and re-used.

Scope for increased recycling will be incorporated by specifying recycled materials where possible and ensuring that even where new materials are used, as much as possible can be recycled at the end of the buildings' life. Some typical building materials that can contain a high percentage of recycled material include reinforcing and framing steel, concrete masonry units, gypsum

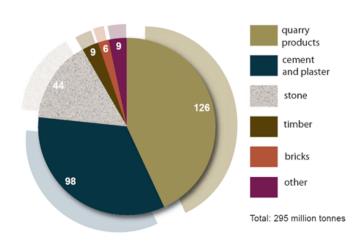
suspension system.

Specifying materials with a high-recycled content is also another method of saving processing or manufacturing energy. The recycled content of a material can be described as either postconsumer or post-industrial to indicate at what point in the life cycle a material is reclaimed.

#### **Ozone Depletion and Global Warming** 5.5

CFCs and HCFCs, compounds commonly used in insulation materials and refrigerants, can cause long-term damage to the Earth's stratospheric ozone layer, exposing living organisms to harmful radiation from the sun. They also significantly increase global-warming if they leak into the atmosphere. Following the Montreal Protocol, production and use of CFCs is no longer permitted and EC regulations will require phasing out of HCFCs by 2015. However, products that replace these gases are often still potent global warming contributors.

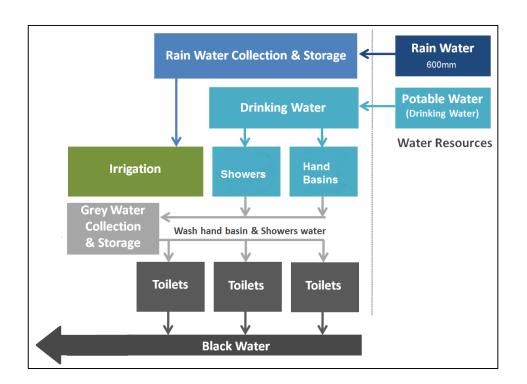
All insulation materials specified for the proposed scheme will have zero Ozone Depleting Potential and low Global Warming Potential, (GWP<5) in either manufacture or composition in line with the BREEAM requirements. This will include insulation for building elements (roof, internal & external walls, floor - including foundations) as well as insulation for hot water vessels and pipework.



wallboard and facing paper, acoustic ceiling panels and their

### Construction related UK consumption of primary resources (2006)





# **6 Water Conservation**

Water consumption in the UK has risen by 70% over the last 30 years. Trying to meet the increasing demand by locating new sources of water supply is both expensive and damaging to the environment. Therefore, the design team have focused on reducing the demand for water and managing the existing resources.

## 6.1 Demand Reduction and Water Efficiency

The aim is to minimise internal and external potable water use within the development. Good water management can contribute to reducing the overall level of water consumption maintaining a vital resource and having environmental as well as cost benefits in the life-cycle of the building. The following water saving measures are being considered for a range of areas in line with the BREEAM requirements, which requires that water usage be limited to less than 105l/person/day.

**Dual Flush Cisterns on WC's** – will be provide for all dwellings and in the commercial unit toilets with a single flush of 4L and/or a full flush of 6L. It is proposed that these are used throughout the development in order to minimise water consumption.

*Flow Restrictors to Taps* - Flow restrictors reduce the volume of water discharging from the tap. Spray taps have a similar effect and are recommended to reduce both hot and cold-water consumption. Low flow taps in one of the above forms will be installed in all of areas so as to comply with the BREEAM mandatory requirements .

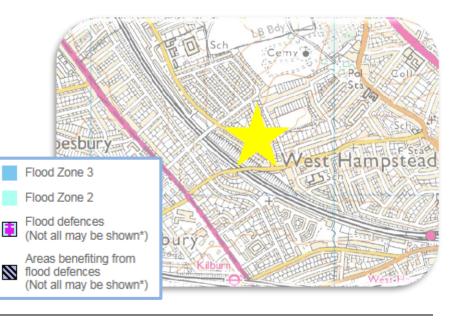
*Water Meters* - In 1995 approximately 33,200 million litres of water a day were extracted in England and Wales, this increased to 44,130 million litres/day in 2009, and much of this was for domestic water supply. To reduce this figure, accurate information on usage is required for management of a building's consumption. Water meters will be specified on the main supply and at the entry to all dwellings and commercial units in line with the BREEAM requirements. *Grey Water Recycling* – This involves recycling water from washbasins or other "low-grade" forms of water and re-using it to serve other purposes e.g. WC flushing, irrigation etc. Wastewater from washbasins is collected via dedicated waste stacks, separate from the soil discharge (WC's and Urinals). The water is passed through a simple filter and then discharged to a storage tank via gravity. Once within the storage tank the water is chemically dosed, ready to be used to feed WC cisterns and urinals for flushing.

The possibly of using grey water for WC flushing will be investigated during the detailed design phase.

# 7 Sustainable Urban Drainage

The garden is currently grassed with areas of hard landscaping where being extended. The main aim for the redevelopment will be to improve the water retention of the site and minimise the risk of flooding from all water sources.

As a minimum, the design will ensure that the peak rate of runoff into watercourses is reduced to 50% of the existing sites run off rate. This will comply with the Interim Code of Practice for Sustainable Drainage systems (SUDS) (CIRIA, 2004) or for at least the 1 year and 100 year return period events. The Envionment Agency map indicates that the site is in a flood risk area 1.



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# 8 Waste Management

Buildings and building sites produce a significant amount of waste per year. Most of the waste produced in the UK is disposed of in landfill sites and only a small percentage of it is recycled or reused.

#### 8.1 Waste Targets

Under EU legislation the UK will have to ensure that less than a third of its waste is sent for burial in landfill sites by 2020 and the figure at present is about 80%. To achieve this target a number of measures are implemented, including landfill tax, aiming to discourage disposal of waste to landfill. Good waste management is a key component of sustainable development. Reducing waste is an important means of:

- Reducing unnecessary expenditure
- Reducing the amount of natural resources used for production of new materials
- Reducing energy for waste disposal
- Reducing levels of contamination and pollution arising from waste disposal

The proposed development will minimise the impact of waste in the environment.

### **Demolition & Construction** 8.2

During the construction phase a large amount of waste material will be generated through construction, demolition and land clearing procedures. In building construction, the primary waste products in descending percentages are: wood, asphalt/concrete/masonry, drywall, roofing, metals, and paper products.

Prior to commencement on a Site Waste Management Plan (SWMP) that complies with the requirements of current legislation and BREEAM will be prepared. This plan will identify the local waste haulers and recyclers, determine the local salvage material market, identify and clearly label site spaces for various waste material storage and require a reporting system that will quantify the results and set targets. As a minimum the SWMP will contain:

a. The target benchmark for resource efficiency e.g. m<sup>3</sup> of waste per 100m<sup>2</sup> or tonnes of waste per 100m<sup>2</sup>;

- Procedures and commitments for minimising nonb. hazardous waste in line with the benchmark;
- C. Procedures for minimising hazardous waste;
- Procedures for monitoring, measuring and reporting d hazardous and non-hazardous site waste;
- e. Procedures for sorting, reusing and recycling construction waste into defined waste groups either on site or through a licensed external contractor;
- f. The name or job title of the individual responsible for implementing the above.

As the proposed development is on land that has previously been built upon, there is the potential for using waste materials from the demolition of existing buildings and hard paved areas. Bricks and concrete could possibly be reused as hard-core materials etc. Opportunities for introducing more reused or reusable materials/components will be explored during detailed design.

### 8.3 Waste Management & Reporting in Operation

The detailed design phases will identify the potential waste streams that the development will produce. At a minimum, plans will be formulated to handle the separation, collection, and storage of common recyclable materials such as paper, glass, plastics, and metals. The collection points will be easily accessible to all of the users.

The main aim will be to recycle as much waste as possible; this will be achieved by making sure that waste recycling facilities are strategically placed in convenient locations.

Dedicated storage space for recyclable materials generated by the site during occupation, will include the following:

- Be clearly labelled for recycling •
- Be placed within accessible reach of the buildings
- Be in a location with good vehicular access to facilitate collections.

### Storage of household waste

The space allocated for waste storage should be able to accommodate containers with at least the minimum volume recommended by British Standard 5906 (British Standards, 2005) based on a maximum collection frequency of once per week. This is 100 litres volume for a single bedroom dwelling, with a further 70 litres volume for each additional bedroom.

Large integrated recycling bin with at least 3 containers for recyclable waste and one general waste will be considered for each dwellings similar to the following image:



80 Litre Capacity (2 x 32L & 2 x 8L) Cabinet size - 600mm

### Waste collection points

Within the front garden refuse and recycling stores will be provided. These will be emptied on a regular basis.

# **CUNDALL** 9 Environmental Management

Construction sites are responsible for significant impacts, especially at a local level. These arise from noise, potential sources of pollution and waste and other disturbances. Impacts such as increased energy and water use are also significant. Therefore attention is being given to site-related parameters with the aim to protect and enhance the existing site & its ecology.

The aim is to have a construction site managed in an environmentally sound manner in terms of resource use, storage, waste management, pollution and good neighbourliness. To achieve this, there will be a commitment to comply with the Considerate Constructors Scheme and get a formal certification under the scheme in line with the BREEAM requirements. As a minimum a score of greater than 32 of out 40 will be achieved with an aspiration to exceed 36, with no individual section achieving a score of less than 3.

Areas that can be taken into consideration in order to minimise the impact of the construction site on its surroundings and the global environment as outlined in the BREEAM methodology:

- Monitor, report and set targets for CO<sub>2</sub> or energy usage arising from site activities
- Monitor, report and set targets for CO<sub>2</sub> or energy usage arising from transport to and from site
- Monitor, report and set targets for water consumption arising from site activities
- Monitor construction waste on site, sorting and recycling construction waste where applicable
- Adopt best practice policies in respect of air and water pollution arising from site activities
- Operates an Environmental Management System
- Additionally, all timber used on site should be responsibly sourced



# 10 Land Use and Ecology

The site currently comprises of a mix of existing buildings and hard landscaping, with no ecological value to the site.

New planted area will be included where possible, to increase the ecological value of the site and help protect local plant and animal species.

Recommended mitigation and enhancement measures include the implementation of protection measures during the construction phase with respect to retained trees (on the boundary of the site). Within the development, features are proposed to retain opportunities for any nesting birds or bats if present, and other flora and fauna.

The proposed developme ecology of the site.



The proposed development will result in no negative change to the

# **11** Pollution

Global concern for environmental pollution has risen in recent years, as concentrations of harmful pollutants in the atmosphere are increasing. Buildings have the potential to create major pollution both from their construction and operation, largely through pollution to the air (dust emissions, NOx emissions, ozone depletion and global warming) but also through pollution to watercourses and ground water. The proposed development will aim to minimise the above impacts, both at the design stage and onsite.

#### **Ozone Depletion** 11.1

CFCs and HCFCs, compounds commonly used in insulation materials and refrigerants, can cause long-term damage to the Earth's stratospheric ozone layer, exposing living organisms to harmful radiation from the sun. They also significantly increase global-warming if they leak into the atmosphere. Following the Montreal Protocol, production and use of CFCs is no longer permitted and EC regulations will require phasing out of HCFCs by 2015. However, products that replace these gases are often still potent global warming contributors. Where refrigerants are used for air-conditioning and comfort cooling they will be CFC and HCFC-free.

## 11.2 Internal pollutants

Volatile organic compounds (VOCs) are emitted as gases (commonly referred to as offgassing) from certain solids or liquids. VOCs include a variety of chemicals, some of which are known to have short-term and long-term adverse health effects. Concentrations of many VOCs are consistently higher indoors (up to ten times higher) than outdoors.

VOCs are emitted by a wide array of products numbering in the thousands. Examples include: paints and lacquers, paint strippers, cleaning supplies, pesticides, building materials, furnishings, adhesives, Urea-formaldehyde foam insulation (UFFI), pressed wood products (hardwood plywood wall panelling, particleboard, fibreboard) and furniture made with these pressed wood products.

'No' or 'low' VOC paints are available from most standard mainstream paint manufacturers. There 'eco-friendly' paints are made from organic plant sources and also powdered milk based products.

The design team will seek to select internal finishes and fittings with low or no emissions of VOCs and comply with European best practice levels as a minimum.

## 11.3 NOx emissions from boilers

Nitrous oxides (NOx) are emitted from the burning of fossil fuels and contribute to both acid rain and to global warming in the upper atmosphere. At ground level, they react to form ozone, a serious pollutant and irritant at low level. Burners in heating systems are a significant source of low-level NOx, while power stations (and therefore electric heating) are a significant source of NOx in the upper atmosphere.

The amount of NOx emissions varies between products. New gas boilers vary from 40 NOx/kW to <70mg NOx/kWh (class 5).

### 11.4 Night Sky Pollution

External lighting encompasses vehicle and pedestrian access lighting, security lighting, facility illumination and general feature lighting. Where present it will be designed on a site wide basis to meet the mandatory requirements and aesthetic considerations. The strategy is to provide a balance between adequate external lighting for safe and secure operation of the site without unnecessary illumination or power consumption.

The intention is to be a good neighbour and not to introduce nuisance glare or light pollution of the night sky from miss directed or unnecessary lighting. Feature lighting, where required, will be focussed to the task/subject. Where necessary luminaires will be further screened in cases where there may be an issue of close proximity and light spill to the adjacent neighbouring residential areas, although the intention is to avoid this situation arising wherever possible from the outset. The external lighting design will take into consideration the relevant guidance from the British Standards and other recommended documents including the following Standards and Design Guides:

- CIBSE Lighting Guide for the Outdoor Environment **CIBSE Lighting Design Guides**

- Classes
- Reduction of Obtrusive Light



BS5489 Code of Practice for the Design of Road Lighting BS EN 13201-1 Road Lighting, Selection of Lighting

BSEN 13201-2 Road Lighting, Performance requirements Institute of Lighting Engineers Guidance Notes for the

# **12 Green Transport**

The transport of people between buildings is the second largest source of  $CO_2$  emissions in the UK after energy use in buildings and remains the main source of many local pollutants. Energy use and emissions from transport are growing at 4% per year, and at the same time, the effects of climate change are becoming more severe; there will be greater pressure to control  $CO_2$  emissions from transport and sites without good access to public transport will be at much greater risk from these controls.

## 12.1 Site location

The site for the proposed development is located central London. Within close proximity to the shops and amenities of Kilburn Tube station which is within walking distance.

There are six local bus services off Westbere Road and Shoot-Up Hill and local national rail connections from Cricklewood station.

The site achieves a PTAL rating of 4.

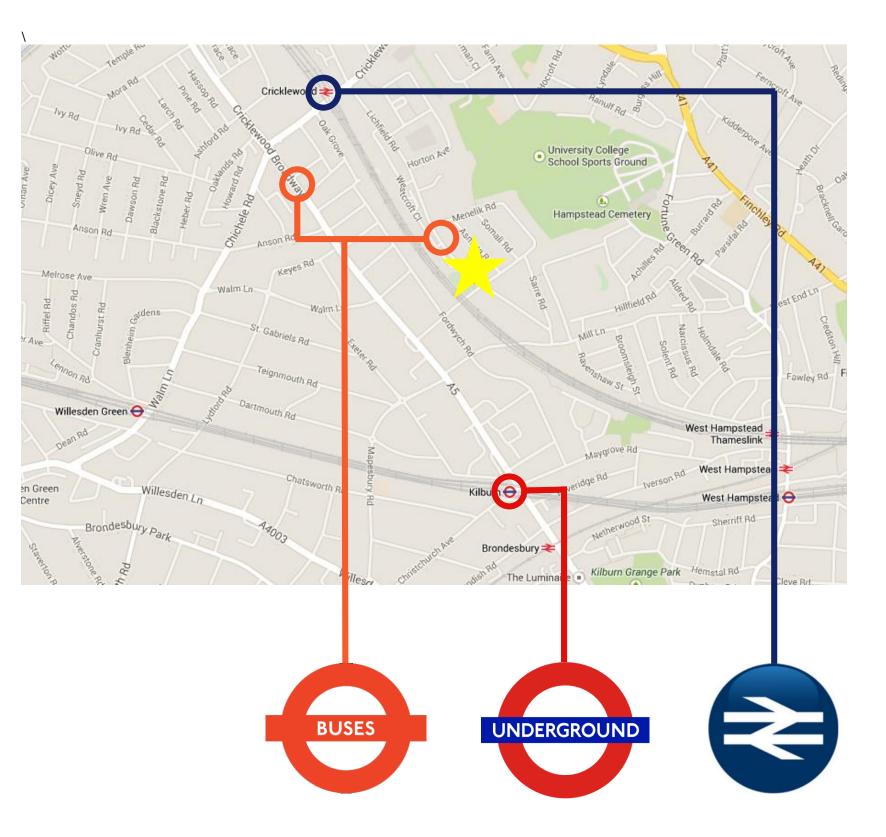
## 12.2 Cycling Facilities

Secure cycling spaces will be provided for the residences in order to encourage the occupants to use this carbon-free mode of transport. Secure, convenient and weather-proof cycle storage areas for use by the residential units will be located within each development.

- Based on the current unit schedule 4 cycle spaces are required for one BREEAM credit.
- 7 cycle spaces are required in accordance with BREEAM to achieve 2 credits.
- The development offers 7 cycle spaces.

## 12.3 Car Parking Spaces

Car parking spaces have been limited as much as possible for the proposed development so as to encourage the occupants to use the local public transport facilities.



# **Appendix A – Preliminary LZC assessment**

	Equipment	Energy Generation	Estimated Capital Cost (£)	Payback Period (yrs)	Annual CO <sub>2</sub> Emissions Savings	20 year life cycle cost	Feasibility (yes/no)	Physical,Spatial & land use Impact	Noise Impact
VAWT	1No 3kW Ropatec WRE.030 wind turbine(s)	<b>31%</b> (Electrical)	£8,000	27	4.9%	£1,973	NO	Turbines must be sited aw ay from obstructions. Above building roof heights and spaced at least 3 x their diameters apart horizontal	Wind turbines generate noise that can be heard, dependent on wind speed and direction, a few hundred metres aw ay. How ever this level is normal only marginal greater than the actual wind noise itself (2- 12 dB) and is hence not considered to be a problem
HAWT	1No 1.5kW Bornay 1500 wind turbine(s)	<b>84%</b> (Electrical)	£5,000	5	13.5%	-£14,826	NO	Turbines must be sited aw ay from obstructions. Above building roof heights and spaced at least 5 x their diameters apart horizontal	Wind turbines generate noise that can be heard, dependent on wind speed and direction, a few hundred metres aw ay. How ever this level is normal only marginal greater than the actual wind noise itself (2- 12 dB) and is hence not considered to be a problem
Photovoltaics	13.5m² of Yingli Solar (235 W) Polycrystalline PV panels	<b>65%</b> (Electrical)	£6,804	15	10.5%	-£2,309	NO	Panels must be mounted on an area free from overshadow ing	None
Solar Thermal	13.5m² of Evacuated Tubes Collectors	<b>79%</b> (DHW)	£6,750	11	19.9%	-£6,099	NO	Collectors must be mounted on an area free from overshadow ing	None
Biomass Boiler	15kW boiler burning Wood Chips (25% MC)	<b>77%</b> (Heat)	£18,000	9	58.4%	-£20,441	NO	Potential issue of smoke & smell from boiler depending on moister content of fuel. ~ 30m <sup>9</sup> fuel storage areas required w ith access for fuels deliveries.	Normal noises associated with boiler plant, noise convinced within the dedicated plant room. Potential additional noise generation associated with the fuel deliveries.
Heat Pumps - ASHP	ASHP heat pump(s): 50kW heating / 22kW cooling	<b>100%</b> (Heat)	£32,500	n/a	3.1%	£37,326	NO	Minimal visual impact to site, w ill require additional plant space for heat pumps and external heat rejection units	Normal noises associated with HVAC plant, noise convinced within the dedicated plant areas
Heat Pumps - GSHP	7No of 100m deep vertical boreholes	<b>100%</b> (Heat)	£46,667	48	20.9%	£27,099	NO	No visual impact to site, w ill require additional plant space for heat pumps and w ell heads.	Normal noises associated with HVAC plant, noise convinced within the dedicated plant areas
СНР	1No of 4kWe / 8kWth gas-fired CHP engine	<b>54% / 26%</b> (Heat / Electrical)	£8,000	n/a	-2.0%	£16,545	NO	No visual impact to site, w ill require additional plant space for CHP engine	Normal noises associated with HVAC plant, noise contained within the dedicated plant areas

### Additional Comments

Built up area, estimated average windspeeds unlikely to be met for the majority of the year. Noise, safety and location all preclude wind turbines for this site.

Built up area, estimated average windspeeds unlikely to be met for the majority of the year. Noise, safety and location all preclude wind turbines for this site.

The existing orientation in combination with the proposed use of rooflights means that there will not be any useful roof area in the most suitable southernly facing roof space, making PV panels unviable in this instance.

The existing orientation in combination with the proposed use of rooflights means that there will not be any useful roof area in the most suitable southernly facing roof space making SHW appear unviable in this instance.

Could potentially provide a good level of CO2 emissions reduction, how ever they require significant space for storage and delivery of fuel w hich generally does not suit an existing building. They have higher particulate emissions than gas boilers w hich typically raises concerns with the Environment Planning.

Recent studies have found that most installation in the UK are only achieving CSoP of 2-3. Hence a GSHP may actually result in an increase in CO2 emissions and have therefore not been considered any further.

No scope for boring on existing site.

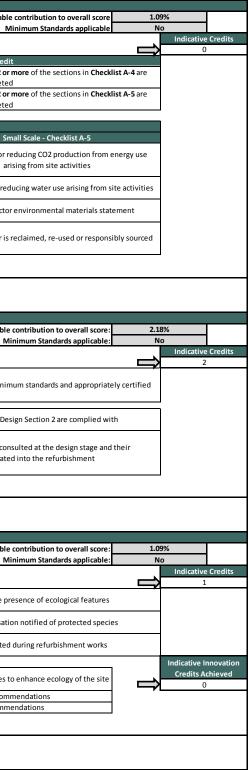
Insufficiently diverse heating load due to the small size of the development makes anything except micro-CHP non-viable. Smallest commercial sized CHPs lead to a poor quality installation w ith insufficient running hours.

# **Appendix B – Preliminary BREEAM Assessment**

sssessment and unverified commitments given at an early stage in the design process.       Ene 02       Wat 01       Wat 01         Indicative BackMartains       Building name       Project Falcon       Wat 01       Wat 01       Wat 01         Indicative BackMartains       BEEEAM Very Good       Hea 05       V	255AM Domostic Poturbichm	ant 2012 Bra Acc	ossmant Estimator v0 7		© BRE Global Ltd 20
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No. of BREEAM credits available       3       Available contribution to overall score       3.27%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         ere a home Users Guide be provided to all dwellings, covering all issues set out in the Users Guide Contents list', three credits may be awarded on annents       Indicative Credit       0         no. of BREEAM innovation credits       1       Available contribution to overall score       2.18%         No. of BREEAM innovation credits       1       Available contribution to overall score       2.18%         No. of BREEAM innovation credits       1       Available contribution to overall score       0         No. of BREEAM innovation credits       1       Available contribution to overall score       2.18%         No. of BREEAM innovation credits       1       No       Indicative Credits         ere a compliant considerate construction scheme will be used, credits are awarded depending the score achieved as outlined below:       0       0         Large Scale - project with more than 5 units       One Credit       Two Credits       Two Credits         Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       section         Alternative Compliant Scheme       Compliance       Beyond Compliance       section         Alternative Compliant Sche	MANAGEMENT		Section Weighting: 12%	Indicative Section Score: 5.4	5%
No. of BREEAN innovation credits       0       Minimum Standards applicable:       No         ssament Criteria       Indicative Credits       Indicative Credits         er a Home Users Guide be provided to all dwellings, covering all issues set out in the 'Users Guide Contents list', three credits may be awarded       Indicative Credits         no. of BREEAM credits available       2       Available contribution to overall score;       2.18%         No. of BREEAM innovation credits       1       Minimum Standards       No         No. of BREEAM innovation credits       1       Minimum Standards       No         No. of BREEAM innovation credits       1       Minimum Standards       No         No. of BREEAM innovation credits       1       Minimum Standards       No         No. of BREEAM innovation credits       1       Minimum Standards       No         No. of BREEAM innovation credits       1       No       No       No         Secret available contribution to overall score avail-section       Score of 35-39 with a score of 7 in each section       Score of 35-39 with a score of 7 in each section       Score of 35-39 with a score of 7 in each section       Score of 35-39 with a score of 7 in each section       Score of 35-39 with a score of 7 in each section       Score of 35-39 with a score of 7 in each section       Score of 35-39 with a score of 7 in each section       Score of 35-39 with a score of 7 in eac				•	
essment Criteria ere a hone Users Guide be provided to all dwellings, covering all issues set out in the 'Users Guide Contents list', three credits may be awarded Indicative Credits No. of BREEAM credits available 2 No. of BREEAM redits available 2 No. of BREEAM innovation credits 1 No. of BREEAM innovation credits 2 No. of the optional items 2 No. of the optiona			1		
a Home Users Guide be provided to all dwellings, covering all issues set out in the 'Users Guide Contents list', three credits may be awarded       0         Imments       0         In 0.2. Responsible Construction Practices       0         No. of BREEAM innovation credits       1         Indicative Credits       No         Iternative Construction scheme will be used, credits are awarded depending the score achieved as outlined below:       0         Iternative Compliant Scheme       Score of 25-34 with a score of 7 in each section         Stand Scale - project with Sunits or fewer       0         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section         Score of 35-39 with a score of 7 in each section       section         Score of 25-34 with a score of 5 in each section       section         Score of 25-34 with a score of 5 in each section       section         Score of 35-39 with a score of 7 in each section       section         Alternative Compliant Scheme       Score of 25-34 with a score of 5 in each section         Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section		0	N N	Ainimum Standards applicable: No	Indiantivo Crodito
nments         No. of BREEAM credits available       2         No. of BREEAM innovation credits       1         Minimum Standards       No         Indicative Credits       No         ere a compliant considerate construction scheme will be used, credits are awarded depending the score achieved as outlined below:       0         Image Scale - project with more than 5 units       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Stall Scale - project with 5 units or fewer       One Credit       Two Credits       Score of 7 in each section         Score of 25-34 with a score of 5 in each section       Score of 7 in each section       Score of 7 in each section       section         Stall Scale - project with 5 units or fewer       One Credit       Two Credits       Score of 7 in each section         Score of 25-34 with a score of 5 in each section       Score of 7 in each section       section       section         Alternative Compliant Scheme       Compliance       Beyond Compliance       section       section         Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section       section       section       of the optional items         Alternative Compliant Scheme       Score of 40 or more wi		all dwollings, covoring a	ll iscues set out in the 'llsers Guide Contents list' thre	a cradite may be awarded	
In 02. Responsible Construction Practices         No. of BREEAM credits available       2       Available contribution to overall score:       2.18%       No         No. of BREEAM credits available       1       Available contribution to overall score:       2.18%       No         No. of BREEAM credits available       1       No       Indicative Credits       No         essment Criteria       0       Indicative Credits       0         Error Scale - project with more than 5 units       One Credit       Two Credits       Score of 35-39 with a score of 7 in each section         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       Score of 7 in each section         Small Scale - project with 5 units or fewer       One Credit       Two Credits       Score of 7 in each section       Score of 7 in each section         Score of 25-34 with a score of 5 in each section       Score of 7 in each section       Score of 7 in each section       Score of 7 in each section         Small Scale - project with 5 units or fewer       One Credit       Two Credits       Score of 7 in each section       Score o		an owenings, covering a	in issues set out in the osers duide contents list, three		0
No. of BREEAM credits available       2       Available contribution to overall score:       2.18%         No. of BREEAM innovation credits       1       No       Indicative Credits         essment Criteria       essment considerate construction scheme will be used, credits are awarded depending the score achieved as outlined below:       Indicative Credits       0         Large Scale - project with more than 5 units       One Credit       Two Credits       Indicative Credits       0         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       section         Alternative Compliant Scheme       Compliance       Beyond Compliance       section         Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       section         Small Scale - project with 5 units or fewer       One Credit       Two Credits       section         Alternative Compliant Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       section         Alternative Compliant Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       section         Alternative Compliant Scheme       Score of 25-34 with a score of 7 in each section       Alternative Compliant Scheme       Score of 40 or more with a scor	linents				
No. of BREEAM credits available       2       Available contribution to overall score:       2.18%         No. of BREEAM innovation credits       1       No. of BREEAM innovation credits       No         sessment Criteria       No       No       Indicative Credits         bere a compliant Considerate construction scheme will be used, credits are awarded depending the score achieved as outlined below:       0       Indicative Credits         Large Scale - project with more than 5 units       One Credit       Two Credits       0         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Small Scale - project with 5 units or fewer       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance       Indicative Innovativ Credits         Exemplary Credit       Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section       Beyond Compliance         Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section       Alternative Compliant Scheme       Score of 7 in each section       * Small Scal					
No. of BREEAM credits available       2       Available contribution to overall score:       2.18%         No. of BREEAM innovation credits       1       No       Indicative Credits         essment Criteria       rea compliant considerate construction scheme will be used, credits are awarded depending the score achieved as outlined below:       Indicative Credits       0         Large Scale - project with more than 5 units       One Credit       Two Credits       Indicative Credits       0         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       section         Alternative Compliant Scheme       Compliance       Beyond Compliance       section         Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       section         Small Scale - project with 5 units or fewer       One Credit       Two Credits       section         Alternative Compliant Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       section         Alternative Compliant Scheme       Compliance       Beyond Compliance       section       section         Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section       Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section       <					
No. of BREEAM innovation credits       1       Minimum Standards       No         essment Criteria       essment Criteria       Indicative Credits       0         ere a compliant considerate construction scheme will be used, credits are awarded depending the score achieved as outlined below:       0       0         Large Scale - project with more than 5 units       One Credit       Two Credits       0         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Small Scale - project with 5 units or fewer       One Credit       Two Credits       section         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Store of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       Score of 35-39 with a score of 7 in each section         Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section       Score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance       Score of 7 in each section         Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section       Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section         Alternative Compliant Scheme       Exem	an 02 Responsible Construction Prac	tices			
essment Criteria       Indicative Credits         ere a compliant considerate construction scheme will be used, credits are awarded depending the score achieved as outlined below:       Image Scale - project with more than 5 units         Large Scale - project with more than 5 units       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Small Scale - project with 5 units or fewer       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Small Scale - project with 5 units or fewer       One Credit       Two Credits       Score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance       Indicative Innovation (Credits A-3)         Exemplary Credit       Considerate Constructors Scheme       Score of 7 in each section       80% of the optional items         Exemplary Credit       Indicative Innovation (Credits A-3)       Score of 40 or more with a score of 7 in each section       Indicative Innovation (Credits Achieved O)         Alternative Compliant Scheme       Exemplary Level Compliance       Indicative Innovation (Credits Achieved O)       Indicative Innovation (Credits Ac	No. of BREEAM credits available	2	Availabl	e contribution to overall score: 2.18%	
ere a compliant considerate construction scheme will be used, credits are awarded depending the score achieved as outlined below:          Image Scale - project with more than 5 units         One Credit       Two Credits         Score of 25-34 with a score of 5 in each section         Alternative Compliant Scheme       Compliance         One Credit       Two Credits         Score of 25-34 with a score of 5 in each section         Score of 25-34 with a score of 5 in each section         Alternative Compliant Scheme       Compliance         Beyond Compliance         Main Scale - project with 5 units or fewer	No. of BREEAM innovation credits	1		Minimum Standards No	
Large Scale - project with more than 5 units         One Credit       Two Credits         Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Small Scale - project with 5 units or fewer       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Beyond Compliance         Small Scale - project with 5 units or fewer       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance       Beyond Compliance         Checklist A-3       S0% of the optional items       80% of the optional items       Indicative Innovatie Credits Credits Achieved         Exemplary Credit       Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section       Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section         Alternative Compliant Scheme       Exemplary Level Compliance       *Small Scale Project Only       *Small Scale Project Only	assment Criteria				Indicative Credits
One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Small Scale - project with 5 units or fewer       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Score of 35-39 with a score of 7 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Checklist A-3       S0% of the optional items       80% of the optional items         Exemplary Credit       Score of 40 or more with a score of 7 in each section       Indicative Innovative Credits Achieved 0         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only	-		redits are awarded depending the score achieved as o	outlined below:	0
Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Small Scale - project with 5 units or fewer       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Checklist A-3       50% of the optional items       80% of the optional items         Exemplary Credit       Indicative Innovatio         Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section         Alternative Compliant Scheme       Exemplary Level Compliance       Indicative Innovatio         Checklist A-3*       All Items (Optional & Mandatory)       * Small Scale Project Only	Large Scale - project with more th	ian 5 units	One Gradit		
Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Small Scale - project with 5 units or fewer       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Alternative Compliant Scheme       Compliance       Beyond Compliance         Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section       Indicative Innovation Credits Achieved 0         Exemplary Credit       Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section       Alternative Compliant Scheme       Indicative Innovation Credits Achieved 0         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only       * Small Scale Project Only					
Alternative Compliant Scheme       Compliance       Beyond Compliance         Small Scale - project with 5 units or fewer       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Alternative Compliant Scheme       Compliance       Beyond Compliance         Checklist A-3       50% of the optional items       80% of the optional items         Exemplary Credit       Indicative Innovative Credits Achieved       Credits Achieved         Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section       Indicative Innovative Credits Achieved         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only	Considerate Construc	tors Scheme	Score of 25-34 with a score of 5 in each section		
Small Scale - project with 5 units or fewer       One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Checklist A-3       50% of the optional items       80% of the optional items         Exemplary Credit       Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section         Alternative Compliant Scheme       Exemplary Level Compliance       0         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only					
One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Checklist A-3       50% of the optional items       80% of the optional items         Exemplary Credit       Score of 40 or more with a score of 7 in each section       Indicative Innovation Credits Achieved 0         Alternative Compliant Scheme       Exemplary Level Compliance       0         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only	Alternative Complia	nt Scheme	Compliance	Beyond Compliance	
One Credit       Two Credits         Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Checklist A-3       50% of the optional items       80% of the optional items         Exemplary Credit       Score of 40 or more with a score of 7 in each section       Indicative Innovation Credits Achieved 0         Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section       Indicative Innovation Credits Achieved 0         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only					
Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       Score of 35-39 with a score of 7 in each section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Checklist A-3       50% of the optional items       80% of the optional items         Exemplary Credit       Score of 40 or more with a score of 7 in each section       Indicative Innovative Credits Achieved         Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section       Indicative Innovative Credits Achieved         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only	Small Scale - project with 5 units of	or fewer	0	T	
Considerate Constructors Scheme       Score of 25-34 with a score of 5 in each section       section         Alternative Compliant Scheme       Compliance       Beyond Compliance         Checklist A-3       50% of the optional items       80% of the optional items         Exemplary Credit       Indicative Innovation Credits Achieved       Credits Achieved         Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section       Indicative Innovation Credits Achieved         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only					
Alternative Compliant Scheme       Compliance       Beyond Compliance         Checklist A-3       50% of the optional items       80% of the optional items         Exemplary Credit       Score of 40 or more with a score of 7 in each section       Indicative Innovation Credits Achieved 0         Alternative Compliant Scheme       Score of 40 or more with a score of 7 in each section       Indicative Innovation Credits Achieved 0         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only	Considerate Construc	tors Scheme	Score of 25-34 with a score of 5 in each section		
Checklist A-3       50% of the optional items       80% of the optional items         Exemplary Credit       Indicative Innovation Credits Achieved       Indicative Innovation Credits Achieved         Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section       Indicative Innovation Credits Achieved         Alternative Compliant Scheme       Exemplary Level Compliance       * Small Scale Project Only	Altornativo Complia	int Scheme	Compliance		
Exemplary Credit       Indicative Innovation         Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section       Image: Credit Scheme in the score of 7 in each section         Alternative Compliant Scheme       Exemplary Level Compliance       0         Checklist A-3*       All Items (Optional & Mandatory)       * Small Scale Project Only					
Considerate Constructors Scheme       Score of 40 or more with a score of 7 in each section       Credits Achieved         Alternative Compliant Scheme       Exemplary Level Compliance       0         Checklist A-3*       All Items (Optional & Mandatory)       * Small Scale Project Only		-3	50% of the optional items		
Considerate Constructors Scheme     Score of 40 or more with a score of 7 in each section       Alternative Compliant Scheme     Exemplary Level Compliance       Checklist A-3*     All Items (Optional & Mandatory)   *Small Scale Project Only	Exemplary Credit			,	
Checklist A-3* All Items (Optional & Mandatory) * Small Scale Project Only	Considerate Construc	tors Scheme	Score of 40 or more with a score of 7 in each section		
	Alternative Complia	int Scheme	Exemplary Level Compliance		
nments	Checklist A-	3*	All Items (Optional & Mandatory)	* Small Scale Project Only	
nments			-		
	nments				

No. of BREEAM credits available	1		Availa
No. of BREEAM innovation credits	0		
Assessment Criteria Where evidence demonstrate that site	impacts will be monitored	as detailed below:	
	impuets win be monitored, t	is detailed below.	One Cre
Lerge	Coolo	Where there is evidence to	
Large	Scale		complet
Small	Scale	Where there is evidence to	
			comple
		Sections of Checklist	
	Large Scale - Checklist A-4		
Monitor, report and set ta	rgets for CO2 production of		Set objectives for
	activities		Set objectives to
Monitor, report and set ta	argets for water consumption	n arising from site activities	
			Set objectives for n
A main contra	ctor with an environmental	materials policy	
			Main contract
A main contractor that	at operates an Environmenta	l Management System	
20% of cite time	er is reclaimed, re-used or re	sponsibly sourced	80% of site timber
		sponsibly sourced	
Same definition of small and	large scale as in Man 02		
iments			
an 04 Security			
No. of BREEAM credits available	2		Availab
No. of BREEAM innovation credits	0		
ssment Criteria	ha mati		
ere the following requirements will	be met.		
One C		External doors and accessibl	e windows meet min
Secure windo	ws and doors		
		Principles and guid	dance of Secured by D
Two C	redits		
Secured b	oy design	A suitably qualified se	curity consultant is c
		recommen	dations are incorpora
nments			
liments			
1an 05 Protection and Enhancem	ent of Ecological Features		
No. of BREEAM credits available			Availab
No. of BREEAM innovation credits	1		
sessment Criteria here the following requirements will	ha mat:		
lere the following requirements will	be met.		
		Site survey carr	ied out to determine
One C	redit		
Protecting Ecolo	ogical Features	Statutory Nature C	Conservation Organisa
		Features of eco	logical value protecte
		reatures of etc	nobical value protecti
E	r. Crodit	A suitably qualified ecologist	recommends features
Exempla Ecological er		adopts all as	eneral ecological reco
			6 of additional recom
		44001330/	
nments			

Man 02 Constructio



Man 06 Project Management No. of BREEAM credits available 2	Available contribution to overall score 2.1	8%	
No. of BREEAM innovation credits 2	Minimum Standards applicable N	о	
Assessment Criteria		Indicative	Credits
Where the following requirements will be met:		2	
	Where all of the project team are involved in the project decision making Small Scale - the project manager assigns individual and shared responsibilities amongst the		
One Credit	project team including all trades on site		
	Large Scale - the project manager assigns individual and shared responsibilities across the		
Project Roles and Responsibilities	following key design and refurbishment stages:		
	i. Planning and Building control notification		
	ii. Design		
	iii. Refurbishment		
	iv. Commissioning and handover		
	v. Occupation		
Small Scale projects: five units or fewer and less than £10	Dk Large Scale projects: more than five units and more than £100k	1	
	Handover meeting arranged	ן	
	2 or more of the following committed to:		
One Credit	<ul> <li>A site inspection within 3 months of occupation</li> </ul>		
One creat	- Conduct post occupancy interviews with building occupants or a survey via phone or posted		
the advice a cond Affection	information within 3 months of occupation		
Handover and Aftercare	<ul> <li>Longer term after care e.g. a helpline, nominated individual</li> </ul>		
	or other appropriate system to support building users for at least the first 12 months of		
	occupation		
		Indicative In	
	<b>۸</b> ــــ	Credits Ac	
Exemplary Credits	Where A REFEAM Accredited Professional has been appointed to averses law starses within the	0	
	Where A BREEAM Accredited Professional has been appointed to oversee key stages within the		
One Exemplary Credit	project. OR		
Early Design Input	Where a BREEAM Domestic Refurbishment Assessor has been appointed at an early stage of the		
Larry Scolar input	project, prior to the production of a refurbishment specification		
		1	
	Where Thermographic surveying and Airtightness testing have been carried out at both pre and	]	
One Exemplary Credit	post refurbishment stages		
	·		
Thermographic Surveying and Airtightness Testing	Where an improved air tightness target has been set at design stage and testing demonstrates		
	that this has been achieved post refurbishment		
		4	
Comments			

ALTH & WELLBEING . Daylighting	Section Weighting: 17% Indicative Section Score 9.92%
Io. of BREEAM credits available 2	Available contribution to overall score 2.83%
. of BREEAM innovation credits 0 ent Criteria	Minimum Standards applicable No Indic
	ct on daylighting or where minimum daylighting standards are met, up to two credits may
be awarded as follows: For Existing Dwellings and Change of Use Projects	, <u> </u>
First Credit	The refurbishment results in a neutral impact on the dwellings daylighting levels in the kitchen,
Maintaining Good Daylighting	living room, dining room and study
Where the property is being extended	
First Credit	New spaces achieve minimum daylighting levels
Maintaining Good Daylighting	The extension does not significantly reduce daylighting levels in the kitchen, living room, dining room or study of neighbouring properties
For All Properties	
Second Credit	The dwelling achieves minimum daylighting levels in the kitchen, living room, dining room and
Minimum Daylighting	study
ts	
Sound Insulation	
o. of BREEAM credits available 4 . of BREEAM innovation credits 0	Available contribution to overall score 5.67% Minimum Standards applicable No
ent Criteria	
To ensure the provision of acceptable sound insula Properties where sound testing has been carried o	tion standards and so minimise the likelihood of noise complaints.
	Four credits awarded according to the improvement over building regulations. See table in
Up to Four Credits	additional information in Technical Manual
Properties where sound testing is not feasible and	not required by the appointed Building Control body
Two Credits	Where existing separating walls and floors are designed to meet the requirements of Building
	Regulations with compliant construction details
	Where a Suitably Qualified Acoustician (SQA) provides recommendations for the specification of all existing separating walls and floors
Up to Four Credits	SQA confirms in their professional opinion that they have the potential to meet or exceed the sound insulation credit requirements
	Where these recommendations are implemented
	See table in additional information in Technical Manual
Historic Buildings	
	Where the dwelling is a Historic Building and sound testing results demonstrate existing
	separating walls and floor meet the Historic Building credit requirements
	See table in additional information in Technical Manual
Up to Four Credits	Where sound testing is not feasible and not required by the appointed Building Control body meeting criteria 2 and 3 using Table 12
	Properties where sound testing has been carried out, credits awarded according to the
	improvement over building regulations. See table in additional information in Technical Manual
	Where the dwelling is a detached property
	Where the dwelling is a property with separating walls or floors only between non habitable
	rooms OR Testing not required by building control body
Detected Properties	
Detached Properties Four Credits	By Default
Properties with separating walls or floors only between Four Credits	ween non habitable rooms OR Testing not required by building control body By Default
	by berduit
ts	

ea 03 Volatile Organic Compounds No. of BREEAM credits available	1	Available contribution to overall score	1.42%
No. of BREEAM innovation credits	0	Minimum Standards applicable	No
sessment Criteria			Indicative Cred
Where the refurbishment avoids the	e use of VOCs with	h new products meeting the following requirements:	
		Where all decorative paints and varnishes used in the refurbishment have met the require	ment
		listed in table 5.4 in the Technical Manual	
One Credit		Where at least five of the eight remaining product categories listed in table 5.4 have met	
Avoiding the use of	VOCs	testing requirements and emission levels for Volatile Organic Compound (VOC) emission	ons
		against the relevant standards identified within table 5.4 in the Technical Manual	
		Where five or less products are specified within the refurbishment, all must meet the	2
		requirements in order to achieve this credit.	
mments			
ea 04 Inclusive Design			
No. of BREEAM credits available	2	Available contribution to overall score	2.83%
No. of BREEAM innovation credits	1	Minimum Standards applicable	No
sessment Criteria			Indicative Cred
nere an access statement has been carried o	ut using Checklist	A-8 of the Technical Manual to optimise the accessibility of the home as follows:	
		Checklist A-8 of the Technical Manual	
		Section 1 Section 2	
<b>One Credit</b> Minimum Accessib	ility	Completed with Evidence	
Two Credits			
Advanced Accessib	ility	Completed with Evidence Completed with Evidence	
Exemplary Performance			Indicative Innov
Where	e an access expert	t suitably qualified member of the design team has completed sections 1, 2 and 3 of	Credits Achiev
One Credit Check			
refurb mments	hist A-8, access sta bishment	atement template with evidence provided of the measures implemented in the	Please Selec
	,	tement template with evidence provided of the measures implemented in the	Please Selec
	,	tement template with evidence provided of the measures implemented in the	Please Selec
mments ea 05 Ventilation No. of BREEAM credits available	oishment 2	Available contribution to overall score	2.83%
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits	pishment		2.83% Yes
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria	2 0	Available contribution to overall score Minimum Standards applicable	2.83% Yes Indicative Cred
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits	2 0	Available contribution to overall score Minimum Standards applicable	2.83% Yes
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria	2 0	Available contribution to overall score Minimum Standards applicable	2.83% Yes Indicative Cred
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria	2 0	Available contribution to overall score Minimum Standards applicable	2.83% Yes Indicative Cred
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria	2 0	Available contribution to overall score Minimum Standards applicable	2.83% Yes Indicative Cred
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria	2 0	Available contribution to overall score Minimum Standards applicable requirements: A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v	2.83% Yes Indicative Cred
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follor	2 0	Available contribution to overall score Minimum Standards applicable requirements: A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010	2.83% Yes Indicative Cred areans with
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follow One Credit	2 0 wing ventilation r	Available contribution to overall score         Minimum Standards applicable         requirements:         A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010         A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and the section of t	2.83% Yes Indicative Cred 2 neans with d bath-
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follor	2 0 wing ventilation r	Available contribution to overall score Minimum Standards applicable requirements: A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010	2.83% Yes Indicative Cred 2 neans with d bath-
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follow One Credit	2 0 wing ventilation r	Available contribution to overall score         Minimum Standards applicable         requirements:         A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010         A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and the section of t	2.83% Yes Indicative Cred 2 neans with d bath-
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follow One Credit	2 0 wing ventilation r	Available contribution to overall score         Minimum Standards applicable         requirements:         A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010         A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010         A minimum level of purge ventilation is provided in all habitable rooms and wet rooms	2.83% Yes Indicative Cred 2 heans with d bath- 0.
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follow One Credit	2 0 wing ventilation r	Available contribution to overall score         Minimum Standards applicable    requirements:        A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010     A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010	2.83% Yes Indicative Cred 2 heans with d bath- 0.
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follow One Credit	2 0 wing ventilation r	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.	2.83% Yes Indicative Cred 2 heans with d bath- 0. s,
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follow One Credit	2 0 wing ventilation r	Available contribution to overall score         Minimum Standards applicable         requirements:         A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010         A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010         A minimum level of purge ventilation is provided in all habitable rooms and wet rooms	2.83% Yes Indicative Cred 2 heans with d bath- 0. s,
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follow One Credit	2 0 wing ventilation r	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.	2.83% Yes Indicative Cred 2 heans with d bath- 0. s,
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follow One Credit	2 0 wing ventilation r	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.           It is an historic building and meets historic building requirements in CN4 of the technical m Ventilation is provided for the dwelling that meets the requirements of Section 5 of Build	2.83% Yes Indicative Cred 2 reans with d bath- 0. s, ranual
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follor One Credit Minimum Ventilation Req	2 0 wing ventilation r	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.           It is an historic building and meets historic building requirements in CN4 of the technical m	2.83% Yes Indicative Cred 2 reans with d bath- 0. s, ranual
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follow One Credit	2 0 wing ventilation r quirements	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.           It is an historic building and meets historic building requirements in CN4 of the technical m Ventilation is provided for the dwelling that meets the requirements of Section 5 of Build Regulations Part F in full	2.83% Yes Indicative Cree 2 reans with d bath- 0. s, ianual ding
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follor One Credit Minimum Ventilation Req Two Credits	2 0 wing ventilation r quirements	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.           It is an historic building and meets historic building requirements in CN4 of the technical m Ventilation is provided for the dwelling that meets the requirements of Section 5 of Build Regulations Part F in full           Where the building is a historic building and meets the requirements for Historic Building	2.83% Yes Indicative Cree 2 reans with d bath- 0. s, ianual ding
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follor One Credit Minimum Ventilation Req Two Credits	2 0 wing ventilation r quirements	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.           It is an historic building and meets historic building requirements in CN4 of the technical m Ventilation is provided for the dwelling that meets the requirements of Section 5 of Build Regulations Part F in full	2.83% Yes Indicative Cree 2 reans with d bath- 0. s, ianual ding
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follor One Credit Minimum Ventilation Req Two Credits	2 0 wing ventilation r quirements	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.           It is an historic building and meets historic building requirements in CN4 of the technical m Ventilation is provided for the dwelling that meets the requirements of Section 5 of Build Regulations Part F in full           Where the building is a historic building and meets the requirements for Historic Building	2.83% Yes Indicative Cree 2 reans with d bath- 0. s, ianual ding
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follor One Credit Minimum Ventilation Req Two Credits	2 0 wing ventilation r quirements	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.           It is an historic building and meets historic building requirements in CN4 of the technical m Ventilation is provided for the dwelling that meets the requirements of Section 5 of Build Regulations Part F in full           Where the building is a historic building and meets the requirements for Historic Building	2.83% Yes Indicative Cree 2 reans with d bath- 0. s, ianual ding
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follor One Credit Minimum Ventilation Req Two Credits Advanced Requirem	2 0 wing ventilation r quirements	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.           It is an historic building and meets historic building requirements in CN4 of the technical m Ventilation is provided for the dwelling that meets the requirements of Section 5 of Build Regulations Part F in full           Where the building is a historic building and meets the requirements for Historic Building	2.83% Yes Indicative Cree 2 reans with d bath- 0. s, ianual ding
mments ea 05 Ventilation No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria Where the dwelling meets the follor One Credit Minimum Ventilation Req Two Credits Advanced Requirem	2 0 wing ventilation r quirements	Available contribution to overall score Minimum Standards applicable           requirements:           A minimum level of background ventilation is provided (with trickle ventilators or other m of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant v section 7, Building Regulations Approved Document Part F, 2010           A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and rooms), compliant with section 5, Building Regulations Approved Document Part F 2010           A minimum level of purge ventilation is provided in all habitable rooms and wet rooms compliant with section 7, Building Regulations Approved Document Part F, 2010.           It is an historic building and meets historic building requirements in CN4 of the technical m Ventilation is provided for the dwelling that meets the requirements of Section 5 of Build Regulations Part F in full           Where the building is a historic building and meets the requirements for Historic Building	2.83% Yes Indicative Cree 2 reans with d bath- 0. s, ianual ding

No. of BREEAM credits available	1	Available
No. of BREEAM innovation credits	0	N
Assessment Criteria		
Where a fire and carbon mono	xide (CO) detection and ala	rm system is specified as follows:
		Where a compliant fire detection and fire alarm syste
One Cr Fire and Carbon Monoxide (		Carbon Monoxide detector installed if dwelling is sup
Syste		Mains supplied fire detection and alarm system if pro
		Battery operated fire detection and alarm system if n
* see CN9 in Hea 06 for the de	finition of re-wiring	
Commonte		
Comments		

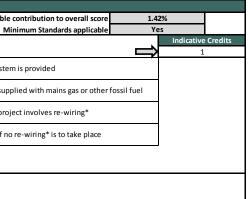
·		
ENERGY		Section Weighting: 43%
Ene 01 Improvement in Energy Eff	iciency Rating	
No. of BREEAM credits available		Availab
No. of BREEAM innovation credits	0	
Associate ant Criteria		

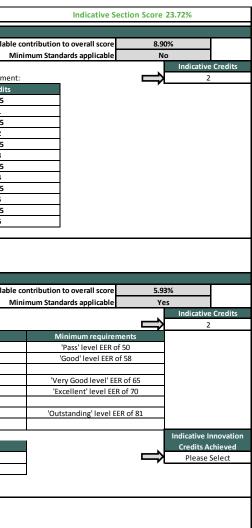
Assessment Criteria Where the following targets are met for the improvement in Energy Efficiency Rating achieved as a result of refurbishment:

Improvement in EER	Credits
≥5	0.5
≥9	1
≥13	1.5
≥17	2
≥21	2.5
≥26	3
≥31	3.5
≥ 36	4
≥42	4.5
≥48	5
≥ 54	5.5
≥ 60	6

No. of BREEAM credits available	4	A
No. of BREEAM innovation credits	2	
Assessment Criteria		
Where the following Energy Efficiency Rating	benchmarks will be met as a result of refurbish	iment:
	EER post refurbishment	Credit
	≥50	0.5
	≥55	1
	≥60	1.5
	≥65	2
	≥70	2.5
	≥75	3
	≥80	3.5
	≥85	4
	Exemplary	Credit
	≥90	1
	≥100	2

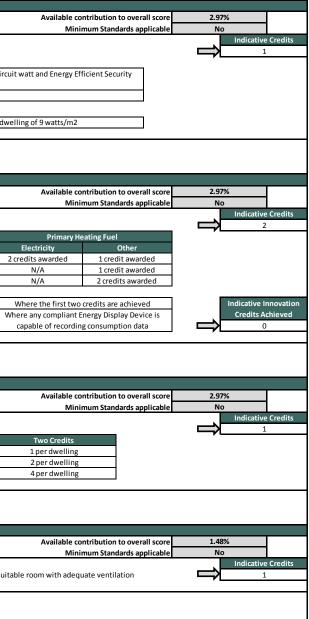
Comments





No. of BREAM resits valiable       7       Available contribution to overall score       10.38%         No. of BREAM invocation redits       0       Minimum Standards applicable       No         Sessenet Clock       10.38%       No       No         Briting / Energy Demused benchmarks will be met as a result of refurtishment:       Immuno factor applicable       No         Credits       2.300       2.5       1.5         2.300       2.5       1.5       1.5         2.300       2.5       1.5       1.5         2.300       2.5       1.5       1.5         2.300       2.5       1.5       1.5         2.300       2.5       1.5       1.5         2.300       2.5       1.5       1.5         2.300       2.5       1.5       1.5         2.300       2.50       7       1.5         Association operation operatiop	ne 03 Primary energy demand		_		a constally the	
estement Circle is a result of refurbishment: Primary Energy Demand banchmarks will be met as result of refurbishment: Primary Energy Demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks will be met as result of refurbishment: Solution of the second demand banchmarks as result of refurbishment: Solution of the second demand banchmarks as result of refurbishment: Solution of the second demand deman	No. of BREEAM credits available	7	-			
rere the following Primary Energy Demand back field with line at a seculi of refurbishment: Frimary Energy Demand Staff Refurbishment       Condition         9300       15         <		U		N	winnmum Standards ap	
Primary Energy Demand Post Refutisitment       Credits         <300		and benchmarks will h	e met as a result of refurbishment			
<ul> <li></li></ul>						/
a 380       15         a 300       25         a 300       25         a 380       35         a 380       35         a 320       45         a 320       6         a 320       6         a 320       6         a 320       6         a 320       7         a 3						
			≤ 370	1		
3300       2.5         3200       3.5         3200       3.5         3200       4.5         3200       4.5         3200       5.5         3100       5.5         3100       6.5         3100       6.5         3100       7         No. of BREAM Inclusts wells       2         No. of BREAM Inclusts wells       2         No. of BREAM Inclusts wells       0         No. of BREAM Inclusts wells       2.50 kWh/m²/year         2105/s       2205/s         206/s       2205/s         207/s       2205/s         208/s       2201/s         208/s       2201/s         208/s       2201/s         209/s       2205/s         209/s       2205/s         209/s       2205/s			≤ 340	1.5		
<ul> <li></li></ul>			≤ 320	2		
a 2200       3.5         c 2200       4.5         c 2200       4.5         c 2200       5.5         c 1300       5.5         c 1300       6.5         c 1300       2.50			≤ 300	2.5		
<ul> <li>             2200             4.5             5.5</li></ul>						
a 2200       4.5         c 200       5.5         c 180       5.5         c 190       6.5         c 100       6.5         c 120       7         mments       100         Available contribution to overall score Minimum Standards applicable         No. of BREEAM credits available 0         Available contribution to overall score Minimum Standards applicable         No. of BREEAM credits available 0         Available contribution to overall score Minimum Standards applicable         No. of BREEAM credits available 0         Available contribution to overall score Minimum Standards applicable         No. of BREEAM credits available 0         Develing Type         Primary Energy Demand         1016 set 5         Standards applicable         No. of BREEAM credits available 0         Minimum Standards applicable         No. of BREEAM credits available contribution to overall score 200 kWh/m <sup>2</sup> /year         Available contribution to overall score 200 kWh/m <sup>2</sup> /year         No. of BREEAM credits available 200 kWh/m <sup>2</sup> /year         No. of BREEAM credits available 200 kWh/m <sup>2</sup> /year						
a 200       5         s 180       5.5         s 180       6.5         s 180       7         No. of BREEAM credits available       2         No. of BREEAM innovation credits       0         Minimum Standards applicable       No         No. of BREEAM innovation credits       0         Market       10         Sessent Citical       No         here the dwelling will meet the following % contribution from renewables and primary energy demand targets as a result of chrishment         Market All Session       200%         Session Detached       5.200 kWh/m <sup>2</sup> /year         s 200%       200%         Minimum Standards applicable       No         Minimum Standards applicable       No         wasessenter Citical       No         No. of BREEAM credits available contribution to overall score       2.07%         No. of BREEAM models available ontribution to overall						
4 180       5.5         5 160       6.5         5 120       7         mments       7         Model Sector Sect						
a 160       6         s 120       7         wmments       7         No. of BREEAM redits available       2         No. of BREEAM incredits available       2         Detached       3         Sessment Circle       No         bere the dwelling will meet the following % contribution from renewables and primary energy demand targets as a result of refundishment       No         Sessment Circle       200%       220%         Burgalow       5       250 kWh/m²/year       210%       220%         And of Terrace       210%       220%       210%       220%         Ming Ruse Flat       5       220 kWh/m²/year       210%       220%       No         Mo of BREEAM redits available       2       20%       210%       220%       No       No         where the the dwelling will movet on cerells       0       Available contribution to overall score       No       No<						
a 1400       6.5         3 120       7         mments       3120         no. of BREEAM credits available no. of BREEAM credits available no. of BREEAM credits available on the following % contribution form renewables and primary energy demand targets as a result of refurbishment bere the dwelling will meet the following % contribution form renewables and primary energy demand targets as a result of refurbishment bete the dwelling will meet the following % contribution form renewables and primary energy demand targets as a result of refurbishment betached       1 Credit       2 Credits         betached       2 200 king       2 Credits       2 Credits       2 Credits         betached       5 250 kWh/m²/year       2 10%       2 20%         Minimum Standards applicable       5 250 kWh/m²/year       2 10%       2 20%         Minimum Standards applicable       5 220 kWh/m²/year       2 10%       2 20%         Minimum Standards applicable       5 220 kWh/m²/year       2 10%       2 20%         Minimum Standards applicable       No       10 Kite State       2 20%         Minimum Standards applicable       No       10 Kite State       2 20%         Minimum Standards applicable       No       10 Kite State       2 20%         No of BREEAM recitits available       2       No       Minimum Standards applicable       No         No. of BREEAM innovation credits </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
statu       7         winnexts       No. of BREEAM credits available       2         No. of BREEAM innovation credits       0       Available contribution to overall score Minimum Standards applicable       No         Sessment Criteria       0       Available contribution to overall score Minimum Standards applicable       No         Image: Sessment Criteria       0       Available contribution to overall score Sessment Criteria       No         Image: Sessment Criteria       0       10/credits       No       Image: Sessment Criteria         Sessment Criteria       200%       220%       220%       Image: Sessment Criteria       No       Image: Sessment Criteria       Image: Sessment Criteria       210%       220%       220%       Image: Sessment Criteria       Sessment Criteria       Sessment Criteria       Sessment Criteria       Sessment Criteria       No       Second Credit						
Available Technologies       Available contribution to overall score       2.97%         No. of BREEAM credits available       0       No       No         Sessment Citeria       0       Primary Energy Demand Targets as a result of effurbishment.       No         Minimum Standards applicable       No       Image: Sessment Citeria       No       Image: Sessment Citeria         here the dwelling will meet the following % contribution from renewables and primary Energy Demand Targets as a result of effurbishment.       Image: Sessment Citeria       2006       2006         Semi-Detached       520 kWh/m²/year       210%       220%       2006						
No. of BREEAM readits available       2       Available contribution to overall score       2.77%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         Sessment Criteria         Indicati       Percentage from Renewables       No         Bergelow       200%       20%       20%       20%       20%       20	omments					
No. of BREEAM credits available       2       Available contribution to overall score       2.77%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         bere the dwelling will meet the following % contribution from renewables and primary energy demand targets as a result of refurbishment       Indicati         Detached       200%       200%       200%         Semi-Detached       210%       220%         Semi-Detached       210%       220%         Mid Terrace       210%       220%         Low Mise Flat       5 220 kWh/m²/year       210%       220%         Mid Terrace       210%       220%       210%       220%         No. of BREEAM credits available       5 220 kWh/m²/year       210%       220%       210%       220%         Mid Terrace       210%       210%       220%       210%       210%       20%       210% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
No. of BREEAM credits available       2       Available contribution to overall score       2.77%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         bere the dwelling will meet the following % contribution from renewables and primary energy demand targets as a result of refurbishment       Indicati         Detached       200%       200%       200%         Semi-Detached       210%       220%         Semi-Detached       210%       220%         Mid Terrace       210%       220%         Low Mise Flat       5 220 kWh/m²/year       210%       220%         Mid Terrace       210%       220%       210%       220%         No. of BREEAM credits available       5 220 kWh/m²/year       210%       220%       210%       220%         Mid Terrace       210%       210%       220%       210%       210%       20%       210% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<>						
No. of BREEAM credits available       2       Available contribution to overall score       2.97%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         bere the dwelling will meet the following % contribution from renewables and primary energy demand targets as a result of refurbishment       Indicati         Detached       210%       220%         Semi-Detached       210%       220%         Esemi-Detached       210%       220%         Mid Terrace       210%       220%         Low Nise Flat       5 200 kWh/m²/year       210%       220%         Mid Terrace       210%       220%       210%       220%         Mid Terrace       210%       220%       210%       220%         No. of BREEAM credits available       5 200 kWh/m²/year       210%       220%         Mid Terrace       210%       210%       20%         No. of BREEAM credits available       0       No. of BREEAM credits available       No         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         Sessment Criteria       0       Kinimum Standards applicable       No         No. of BREEAM credits available       0       Kinimum Standards applicable       No						
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sessment Criteria here the dwelling will meet the following % contribution from renewables and primary energy demand targets as a result of refurbishment. The dwelling Type Primary Energy Demand Percentage from Renewables 200% 220% 200% 20% 200% 20% 200	No. of BREEAM credits available	2		Availabl	e contribution to overa	all score 2.97%
here the dwelling will meet the following % contribution from renewables and primary energy demand targets as a result of refurbishment.           Image: Contribution from renewables and primary energy Demand         Percentage from Renewables           Image: Contribution from renewables and primary energy Demand         Percentage from Renewables           Image: Contribution from renewables and primary energy Demand         Percentage from Renewables           Semi-Detached         \$200%           Bangalow         \$250 kWh/m²/year           Control of Terrace         \$210%           Low Rise Flat         \$220 kWh/m²/year           Control of Terrace         \$200 kWh/m²/year           No. of BREEAM redits available         2           No. of Terrace         No           No. of Terrace         0           No. of BREEAM redits available         2           No. of BREEAM redits available         2           No. of Terrace         0 </td <td>No. of BREEAM innovation credits</td> <td>0</td> <td></td> <td>Ν</td> <td>Vinimum Standards ap</td> <td></td>	No. of BREEAM innovation credits	0		Ν	Vinimum Standards ap	
Dwelling Type         Primary Energy Demand         Percentage from Renewables           1 Credit         2 Credits         2 Credits           2 10%         2 20%         2 20%           2 10%         2 20%         2 20%           2 10%         2 20%         2 20%           2 10%         2 20%         2 20%           2 10%         2 20%         2 20%           2 10%         2 20%         2 20%           1 No Rise Flat         2 10%         2 20%           1 High Rise Flat         2 10%         2 10%           1 No. of BREEAM redits available         2         2 0 %           No. of BREEAM redits available         2         No           1 High Rise Flat         2 10%         2 10%           1 No. of BREEAM redits available         2         No           1 Sessment Citeria         No         No           here Energy Efficiency Value goods are to be provided as follows:         Indicati           Fridges, Freezers and Fridge-Freezers         Energy Saving Trust Recommended appliances specified         EV Energy Efficiency Labelling Scheme Information Labelling Sch						
Dwelling type         Primary Energy Demand         1 Credit         2 Credits           Detached         210%         220%         220%           Semi-Detached         210%         220%         220%           End of Terrace         210%         220%         220%           Mid Terrace         210%         220%         220%           Low Rise Flat         5 220 kWh/m²/year         210%         220%           Mid Rise Flat         5 220 kWh/m²/year         210%         220%           Mid Rise Flat         5 220 kWh/m²/year         210%         215%           Winnum Standards applicable         No. of BREEAM credits available         2         No. of BREEAM credits available         No           Of BREEAM credits available         2         No. of BREEAM credits available         No         No           No. of BREEAM credits available         2         No         Minimum Standards applicable         No           No         Of BREEAM incovation credits         0         No         Indicati           here Energy Efficiency White goods are to be provided as follows:         Indicati         No           First Credit         Appliance provided         Appliance not to be provided         Indicati           Fridges, Freezers and Fridge-Freeze	here the dwelling will meet the follow	ing % contribution from	n renewables and primary energy o			
Detached       210%       220%         Semi-Detached       210%       220%         Bungalow       210%       220%         End of Terrace       210%       220%         Low Rise Flat       210%       220%         Mid Rise Flat       210%       220%         Mid Rise Flat       210%       220%         No. of BREAM credits available       2       20%         No. of BREAM innovation credits       0       No         Sessment Criteria       No       No         here Energy Efficiency White goods are to be provided as follows:       No       Indicati         Fridges, Freezers and Fridge-Freezers       Energy Saving Trust Recommended appliances specified       EU Energy Efficiency Labelling Scheme Information Labelling Scheme Infor		Dwelling Type	Primary Energy Demand			
Semi-Detached       5 250 kWh/m²/year       210%       220%         Bungalow       5 250 kWh/m²/year       210%       220%         End of Terrace       210%       220%         Low Rise Flat       210%       220%         Mid Terrace       210%       220%         Low Rise Flat       210%       220%         Mid Rise Flat       210%       220%         High Rise Flat       210%       210%         No. of BREEAM credits available       2       20 kWh/m²/year       210%         Sessement Criteria       0       Minimum Standards applicable       No         No. of BREEAM innovation credits       0       No       Indicating there Energy Efficiency White goods are to be provided as follows:       Indicating there Energy Efficiency Unite goods are to be provided as follows:       First Credit       Appliance provided       Appliance not to be provided to all dwellings         Fird Credit       Appliance       Appliance provided       Appliance not to be provided to all dwellings         Second Credit       Vashing Machines and Dishwashers       Energy Saving Trust Recommended appliance specified       Second credit not achieved         Washing Machines and Dishwashers       Energy Saving Trust Recommended appliance specified       Second credit not achieved         Washing Machines and Dishwa						
Bungalow       \$ 250 kWh/m <sup>2</sup> /year       \$ 200%         End of Terrace       \$ 200%         Mid Terrace       \$ 200%         Low Rise Flat       \$ 200 kWh/m <sup>2</sup> /year       \$ 200%         Mid Rise Flat       \$ 200 kWh/m <sup>2</sup> /year       \$ 200%         Mid Rise Flat       \$ 200 kWh/m <sup>2</sup> /year       \$ 200%         Mid Rise Flat       \$ 200 kWh/m <sup>2</sup> /year       \$ 200%         Mid Rise Flat       \$ 200 kWh/m <sup>2</sup> /year       \$ 200%         No. of BREEAM credits available       2       \$ 200 kWh/m <sup>2</sup> /year         No. of BREEAM credits available       2       \$ 200 kWh/m <sup>2</sup> /year         No. of BREEAM innovation credits       0       No         Sessement Criteria       No       \$ 0         here Energy Efficiency White goods are to be provided as follows:       Indicati         Firidges, Freezers and Fridge-Freezers       Energy Saving Trust Recommended appliance       \$ 0         Second Credit       Appliance not to be provided to all dwellings       \$ 0         Washing Machines and Dishwashers       Energy Saving Trust Recommended appliance       \$ 0         Second Credit       \$ 0       \$ 0       \$ 0         Washing Machines and Dishwashers       Energy Saving Trust Recommended appliance       \$ 0         Washing Machines and Dishwasher						
Subjective       210%       220%         End of Terrace       10%       220%         Low Rise Flat       210%       220%         Mid Terrace       10%       220%         Low Rise Flat       210%       220%         High Rise Flat       210%       215%         High Rise Flat       210%       215%         No. of BREEAM credits available       2       Available contribution to overall score       2.97%         No. of BREEAM innovation credits       0       Available contribution to overall score       2.97%         No. of BREEAM innovation credits       0       No       Indicati         here Energy Hifeiency White goods are to be provided as follows:       Indicati       No         First Credit       Appliance provided       Appliance not to be provided to all dwelling Scheme       Information Leaflet provided to all dwellings         Fridges, Freezers and Fridge-Freezers       Energy Saving Trust Recommended appliances specified       Second Credit         Vashing Machines and Dishwashers       Energy Saving Trust Recommended appliances specified       Second redit not achieved         Washing Machines and Dishwashers       Energy Saving Trust Recommended appliances specified       Second redit not achieved         Washer-Dryers and Tumble Dryers       Appliances specified with B Rating under			≤ 250 kWh/m²/year			
Mid Terrace       ≥10%       ≥20%         Low Rise Flat       ≤ 220 kWh/m²/year       ≥10%       ≥20%         >>10%       ≥10%       ≥10%       ≥10%         >>10%       ≥10%       ≥15%         >>10%       ≥10%       ≥15%         >>10%       ≥10%       ≥15%         >>10%       ≥15%       ≥10%         >>10%       ≥15%       ≥10%         >>10%       ≥15%       ≥10%         >>10%       ≥15%       ≥10%         >>0       Available contribution to overall score       2.97%         No. of BREEAM redits available       2       Available contribution to overall score       2.97%         No. of BREEAM redits available       2       Available contribution to overall score       2.97%         No. of BREEAM innovation credits       0       No       No       No         sessment Criteria       No       No       No       No         here Energy Efficiency White goods are to be provided as follows:       Indicati       No         First Credit       Appliance       Appliance provided appliances       Second Credit       Energy Saving Trust Recommended appliances       Second credit not achieved         Second Credit       Mashing Machines and Dishwashers						
Intervention       S 220 kWh/m²/year       210%       220%         Mid Rise Flat       210%       215%         High Rise Flat       210%       215%         wine 05       Energy Labelled White Goods       210%       215%         No. of BREEAM innovation credits       0       Available contribution to overall score       2.97%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         Sessment Criteria       No       Minimum Standards applicable       No       Indicati         First Credit       Appliance       Appliance provided       Appliance       Appliance       Indicati         Fridges, Freezers and Fridge-Freezers       Energy Saving Trust Recommended appliances       EU Energy Efficiency Labelling Scheme       Information Leaflet provided to all dwellings         Second Credit        Second credit not achieved						
Mid Rise Flat       210%       215%         High Rise Flat       210%       215%         mments       210%       215%         Interpretation of BREEAM credits available       2       Available contribution to overall score       2.97%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         Seessment Criteria       No       Indicati       Indicati         here Energy Efficiency White goods are to be provided as follows:       Indicati       Indicati         First Credit       Appliance       Appliance provided       Appliance rovided         Fridges, Freezers and Fridge-Freezers       Energy Saving Trust Recommended appliances specified       Information Leaflet provided to all dwellings         Second Credit       Appliance motide       Appliance specified       Second credit not achieved         Washing Machines and Dishwashers       Energy Saving Trust Recommended appliances specified       Second credit not achieved         Washer-Dryers and Tumble Dryers       Appliance specified with B Rating under EU Energy Efficiency Labelling Scheme Information Leaflet provided to all formation Leaflet provided to all information Leafl						
High Rise Flat       ≥10%       ≥15%         pmments       > <t< td=""><td></td><td>OW RISE FIGL</td><td>122011111 / 2/</td><td>∠1070</td><td>&lt;∠∠U70</td><td></td></t<>		OW RISE FIGL	122011111 / 2/	∠1070	<∠∠U70	
sine 05       Energy Labelled White Goods         No. of BREEAM credits available       2         No. of BREEAM innovation credits       0         No       Indicati         here Energy Efficiency White goods are to be provided as follows:       Indicati         First Credit       Appliance         Appliance       Appliance provided         Fridges, Freezers and Fridge-Freezers       Energy Saving Trust Recommended appliances specified         Second Credit       Appliance         Washing Machines and Dishwashers       Energy Saving Trust Recommended appliances specified         Washer-Dryers and Tumble Dryers       Appliances specified with B Rating under EU Energy         EU Energy Efficiency Labelling Scheme Information Leaflet provided to all divelling Scheme Information Leaflet provided         Washer-Dryers and Tumble Dryers       Appliances specified with B Rating under EU Energy         EU Energy Efficiency Labelling Scheme Information Leaflet provided to all         Masher-Dryers and Tumble Dryers       Appliance specified with B Rating under EU Energy         EU		Mid Rico Flat	≤ 220 kWn/m /year			
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Indicati         Indication         Indicati         Indicati         Indicati         Indicati         Indicati         Indicati         Indicati         Indicati         Indicati <th>mments</th> <th>ligh Rise Flat</th> <th>s 220 kwn/m /year</th> <th>≥10%</th> <th>≥15%</th> <th></th>	mments	ligh Rise Flat	s 220 kwn/m /year	≥10%	≥15%	
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First Credit       Appliance       Appliance provided       Appliance not to be provided         Fridges, Freezers and Fridge-Freezers       Energy Saving Trust Recommended appliances specified       EU Energy Efficiency Labelling Scheme Information Leaflet provided to all dwellings         Second Credit       Energy Saving Trust Recommended appliances specified       EU Energy Efficiency Labelling Scheme Information Leaflet provided to all dwellings         Washing Machines and Dishwashers       Energy Saving Trust Recommended appliances specified       Second credit not achieved         Washer-Dryers and Tumble Dryers       Appliance specified with B Rating under EU Energy Efficiency Labelling Scheme Information Leaflet provided to all	mments ne 05 Energy Labelled White Goor No. of BREEAM credits available No. of BREEAM innovation credits	tigh Rise Flat Is 2	s 220 kWh/m /year	≥10% ≥10% Availabl	≥15% ≥15%	plicable No
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	mments  ments  m	High Rise Flat	Dws: Appliance pro Energy Saving Trust Recomm specified Appliance pro Energy Saving Trust Recomm specified Appliances specified with B R	≥10% ≥10% Availabl N vided mended appliances i vided mended appliances i ating under EU Energy	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl	plicable No
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ine 06 Drying Space No. of BREEAM credits available	mments  inc 05 Energy Labelled White Good No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here Energy Efficiency White goods are First Credit Appliar Fridges, Freezers and Second Credit Appliar Washing Machines a Washer-Dryers and Washer-Dryers and mments  inc 06 Drying Space No. of BREEAM credits available	tigh Rise Flat	Dws: Appliance pro Energy Saving Trust Recomm specified Appliance pro Energy Saving Trust Recomm specified Appliances specified with B R	≥10% ≥10% Availabl N vided mended appliances i vided mended appliances i ating under EU Energy ng Scheme	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl dwel e contribution to overa	plicable No it to be provided y Labelling Scheme et provided to all lings to be provided not achieved y Labelling Scheme et provided to all lings
ine 06 Drying Space           No. of BREEAM credits available         1         Available contribution to overall score         1.48%           No. of BREEAM innovation credits         0         Minimum Standards applicable         No	mments  me 05 Energy Labelled White Good No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here Energy Efficiency White goods are First Credit Appliar Fridges, Freezers and Second Credit Appliar Washing Machines a Washer-Dryers and Washer-Dryers and mments  me 06 Drying Space No. of BREEAM credits available No. of BREEAM innovation credits	tigh Rise Flat	Dws: Appliance pro Energy Saving Trust Recomm specified Appliance pro Energy Saving Trust Recomm specified Appliances specified with B R	≥10% ≥10% Availabl N vided mended appliances i vided mended appliances i ating under EU Energy ng Scheme	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl dwel e contribution to overa	plicable No in the second seco
ine 06 Drying Space No. of BREEAM credits available 1 No. of BREEAM innovation credits 0 No issessment Criteria Indicati	mments  me 05 Energy Labelled White Good No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here Energy Efficiency White goods are First Credit Appliar Fridges, Freezers and Second Credit Appliar Washing Machines a Washer-Dryers and Washer-Dryers and Momments  me 06 Drying Space No. of BREEAM innovation credits sessment Criteria	High Rise Flat	DWS: Construction of the second seco	≥10% ≥10% Availabl N vided mended appliances d mended appliances d ating under EU Energy ag Scheme Availabl	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl dwel e contribution to overa	plicable No in the second seco
ine 06 Drying Space         No. of BREEAM credits available         1       Available contribution to overall score         No. of BREEAM innovation credits       0         Sessment Criteria       No         here adequate, secure internal or external space with posts and footings or fixings is provided with the following:       Indicati	mments  me 05 Energy Labelled White Good No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here Energy Efficiency White goods are First Credit Appliar Fridges, Freezers and Second Credit Appliar Washing Machines a Washer-Dryers and Washer-Dryers and Momments  me 06 Drying Space No. of BREEAM innovation credits sessment Criteria	High Rise Flat	Dws:         Appliance pro         Energy Saving Trust Recommendation         Specified         Appliance pro         Energy Saving Trust Recommendation         Specified         Appliances specified with B R         Efficiency Labelling         Appliances specified with B R         Efficiency Labelling         Appliances specified with B R         Efficiency Labelling	≥10% ≥10% Availabl N vided mended appliances d mended appliances d ating under EU Energy ag Scheme Availabl	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl dwel e contribution to overa	plicable No in the second seco
ine 06 Drying Space       No. of BREEAM credits available       1       Available contribution to overall score       1.48%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         sesssment Criteria       No       Indicati       Indicati         here adequate, secure internal or external space with posts and footings or fixings is provided with the following:       1       Indicati	mments  me 05 Energy Labelled White Good No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here Energy Efficiency White goods are First Credit Appliar Fridges, Freezers and Second Credit Appliar Washing Machines a Washer-Dryers and Washer-Dryers and Momments  me 06 Drying Space No. of BREEAM innovation credits sessment Criteria	High Rise Flat	Dives: Appliance pro Energy Saving Trust Recomm specified Appliance pro Energy Saving Trust Recomm specified Appliances specified with B R Efficiency Labellin Appliances specified with B R Efficiency Labellin	≥10% ≥10% Availabl N vided mended appliances d ating under EU Energy ig Scheme Availabl N ith the following:	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl dwel	plicable No in the second seco
ine 06 Drying Space       No. of BREEAM credits available       1       Available contribution to overall score       1.48%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         sesssment Criteria       No       Indicati       Indicati         here adequate, secure internal or external space with posts and footings or fixings is provided with the following:       Indicati         1 Credit       Number of bedrooms       Drying line required	mments  me 05 Energy Labelled White Good No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here Energy Efficiency White goods are First Credit Appliar Fridges, Freezers and Second Credit Appliar Washing Machines a Washer-Dryers and Washer-Dryers and Momments  me 06 Drying Space No. of BREEAM innovation credits sessment Criteria	High Rise Flat	Appliance pro Energy Saving Trust Recomm specified Energy Saving Trust Recomm specified Appliances specified with B R Efficiency Labellin difootings or fixings is provided w 1 Credit Number of bedrooms	≥10% ≥10% Availabl N vided nended appliances i vided ating under EU Energy g Scheme Availabl N ith the following: Drying line red	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl dwel	plicable No in the second seco
Indext Space       Available contribution to overall score       1.48%         No. of BREEAM credits available       1       Available contribution to overall score       1.48%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         ssessment Criteria       Indicati       Indicati         here adequate, secure internal or external space with posts and footings or fixings is provided with the following:       Indicati         1.Credit       Number of bedrooms       Drying line required         1-2       4m+	mments  me 05 Energy Labelled White Good No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here Energy Efficiency White goods are First Credit Appliar Fridges, Freezers and Second Credit Appliar Washing Machines a Washer-Dryers and Washer-Dryers and Momments  me 06 Drying Space No. of BREEAM innovation credits sessment Criteria	High Rise Flat	Appliance pro Energy Saving Trust Recoms Specified Appliance pro Energy Saving Trust Recoms Specified Appliances specified with B R Efficiency Labellin	≥10% ≥10% Availabl N vided mended appliances t vided mended appliances t ating under EU Energy tg Scheme Availabl N tith the following: Drying line rec 4m+	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl dwel	plicable No in the second seco
Sine 06 Drying Space         No. of BREEAM credits available         No. of BREEAM innovation credits         0         Minimum Standards applicable         No         sessment Criteria         here adequate, secure internal or external space with posts and footings or fixings is provided with the following:         1 Credit         Number of bedrooms         Drying line required         1-2       4m+         3+       6m+	mments  ments  ments ments  ments ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  men	High Rise Flat	Appliance pro Energy Saving Trust Recoms Specified Appliance pro Energy Saving Trust Recoms Specified Appliances specified with B R Efficiency Labellin	≥10% ≥10% Availabl N vided mended appliances t vided mended appliances t ating under EU Energy tg Scheme Availabl N tith the following: Drying line rec 4m+	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl dwel	plicable No in the second seco
Indext Space       Available contribution to overall score       1.48%         No. of BREEAM credits available       1       Available contribution to overall score       1.48%         No. of BREEAM innovation credits       0       Minimum Standards applicable       No         ssessment Criteria       Indicati       Indicati         here adequate, secure internal or external space with posts and footings or fixings is provided with the following:       Indicati         1.Credit       Number of bedrooms       Drying line required         1-2       4m+	mments  ments  ments ments  ments ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  ments  men	High Rise Flat	Appliance pro Energy Saving Trust Recoms Specified Appliance pro Energy Saving Trust Recoms Specified Appliances specified with B R Efficiency Labellin	≥10% ≥10% Availabl N vided mended appliances t vided mended appliances t ating under EU Energy tg Scheme Availabl N tith the following: Drying line rec 4m+	≥15% ≥15% e contribution to overa Minimum Standards ap EU Energy Efficienc Information Leafl dwel Appliance not Second credit EU Energy Efficienc Information Leafl dwel	plicable No in the second seco

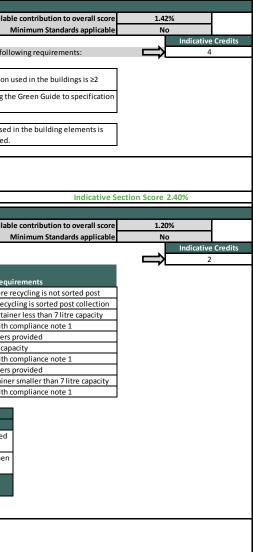
Ene 07 Lighting No. of BREEAM credits availabl 2 No. of BREEAM innovation credit ٥ Assessment Criteria Where energy efficient internal and external lighting is provided as follows: External Lighting - 1 Credit Energy Efficient Space Lighting of more than 45 lumens per circuit watt and Energy Efficient Security Lighting OR Where Energy Efficient Space Lighting is provided ONLY Internal Lighting - 1 Credit Maximum average wattage across the total floor area of the dwelling of 9 watts/m2 Ene 08 Display Energy Devices No. of BREEAM credits availab No. of BREEAM innovation credits Assessment Criteria Where consumption data is displayed to occupants by a compliant energy display device Electricity usage data displayed Electricity usage data displayed Primary Heating Fuel usage data displayed Electricity & Primary Heating Fuel usage displayed Exemplary Credits One credit Ene 09 Cycle Storage No. of BREEAM credits available 2 No. of BREEAM innovation credits 0 Assessment Criteria Where individual or communal compliant cycle storage is provided as follows: Dwelling Size Studios/1 bedroom One Credit 1 per two dwellings 2-3 bedrooms 1 per dwelling 2 per dwelling Ene 10 Home Office No. of BREEAM credits available 1 No. of BREEAM innovation credits • Assessment Criteria Where sufficient space and services will be provided to allow occupants to set up a home office in a suitable room with adequate ventilation ments



WATER		Section Weighting: 11%			Indicative Section	1 Score 7.70%	
Wat 01 Internal Water Use							
	-					6.60%	_
No. of BREEAM credits available	3	-		Available contribution		6.60%	
No. of BREEAM innovation credits	<u> </u>			Iviinimum Stan	dards applicable	Yes	ative Credits
Assessment Criteria							2.5
Where the dwellings water consumption consumption standards:	n meets the following cons	umption benchmarks, or where	terminal fi	ttings meet the following	water	<b></b> /	2.5
Calculated Water Consumption	Equivalent to m	ninal fitting standards		inimum Standard	Credits		
(litres/person/day)				ininiuni Stanuaru	cieuits		
(intres/person/day)							
>150	Typical base	line performance		N/A	0		
	All showers specified to	'Good' OR All taps and WC's to			-		
from 140 to ≤ 150		ings specified to 'Excellent'		N/A	0.5		
		'Excellent' OR All showers and					
from 129 to < 140		taps to 'Good'	BF	REEAM Very Good	1		
from 110 to 1120	All bathroom and WC roor	n fittings specified to 'Good' OR		NI ( A	15		
from 118 to < 129	All bathroom fitting	s specified to 'Excellent'		N/A	1.5		
	All Bathroom and WO	Croom fittings specified to					
	'Excellent' OR All Bat	hroom fittings Specified to					
from 107 to < 118	'Excellent' and WC room f	itting specified to 'Good' OR All	В	REEAM Excellent	2		
	Bathroom fittings, kitcher	and utility sittings specified to					
		Good'					
		lity room and WC room fittings					
from 96 to < 107		bathrooms, kitchens and utility		N/A	2.5		
		fied to 'Excellent'					
< 96		ecified to 'Excellent' and WC	BRI	EAM Outstanding	3		
		oom fittings specified to 'Good'		i i fini i			
NOTE: GOOD fittings are equi	valent to good practice fitt	ngs with "Excellent" fittings equ	ivalent to	best practice fittings (see	the technical manual fo		ve Innovation
			If the we	ter consumption is less			ts Achieved
		Exemplary Credit		an 80l/person/day			0
Comments			th	in boly persony day			
Wat 02 External Water Use							
No. of BREEAM credits available	1			Available contribution	to overall score	2.20%	
No. of BREEAM innovation credits	0			Minimum Stan	dards applicable	No	
Assessment Criteria					••	Indica	ative Credits
Where the following requirements will	be met:						0
	Requirements:						
		Where a compliant rainwater of	collection s	ystem for external/intern	al irrigation use has be	en	
	One Credit	provided to dwellings.					
	one crean	OR					
		Where dwellings have no indiv	vidual or co	mmunal garden space.			
Comments							
Wat 03 Water Meter							
No. of BREEAM credits available	1	-		Available contribution		2.20%	
No. of BREEAM innovation credits	0			Minimum Stan	dards applicable	No	
Assessment Criteria						Indica	ative Credits
Where an appropriate water meter for r	neasuring usage of mains p	otable water meter has been pro	ovided to d	welling(s), one credit may	y be awarded		1
Comments							

MATERIALS		Section Weighting: 8%		Indicative Sectio	n Score 4.09%	
at 01 Environmental Impact of M	aterials					
No. of BREEAM credits available	25		Available contribution to	o overall score	4.44%	
No. of BREEAM innovation credits	0		Minimum Standa	rds applicable	No	
sessment Criteria					Indie	cative Credi
to 25 credits can be awarded, with cre	dits calculated using the	Mat 01 calculator tool. The table below	shows the maximum number of	credits		10
ailable for each element:					,	
Eleme	nts	Green Guide Rating credits a	vailable Thermal perfe	ormance credits avai	lable*	
Roof		5		3		
External walls		5		3.8		
Internal walls (includin	g separating walls)	5		-		
Upper and Ground Floor		5		1.2		
Windo		5		2		
		nts containing refurbished or existing n				
GG Rat	,	Points for existing / refurbishe	d elements Points	s for new elements		
A+ (6)		5				
A+ (5) A+ (4)		4.6				
		4.2				
A+ (3)		3.8				
A+(2)		3.4		2		
A+		2		3	———————————————————————————————————————	
B		1		1		
B		0.5		0.5		
P		0.25		0.25		
E		0		0		
	ot be achieved the score of	an be 'topped up' with thermal perform	mance credits. The full number of		ce	
		ng the minimum U-values shown below				
Eleme		Minimum U-Value (W/n				
Root	f	0.11				
External walls						
External	walls	0.15				
External Internal walls (includin		0.15				
Internal walls (includin Upper and Gro	g separating walls) ound Floor	- 0.15				
Internal walls (includin Upper and Gro Windo	g separating walls) ound Floor	-				
Internal walls (includin Upper and Gro Windo	g separating walls) ound Floor	- 0.15				
Internal walls (includin Upper and Gro Windo mments	g separating walls) ound Floor ws	- 0.15				
Internal walls (includin Upper and Gro	g separating walls) ound Floor ws	- 0.15	Available contribution to	o overall score	2.13%	
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma	g separating walls) bund Floor ws terials	- 0.15	Available contribution t Minimum Standa		Yes	_
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits ressment Criteria	g separating walls) bund Floor ws terials 12 0	0.15	Minimum Standa	rds applicable	Yes	
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly sou e credits achieved are dependent on %	g separating walls) bund Floor ws terials 12 0 urced, up to 12 credits ma	- 0.15	Minimum Standa	ords applicable	Yes	cative Credi 9
Internal walls (includin Upper and Gro Windo nments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly sou	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which	y be awarded where 80% of new mater is based upon the responsible sourcing ier level	Minimum Standa rials for an element are responsil g tier level of each material sourc Points	ords applicable	Yes India	9 ied in the p
Internal walls (includin Upper and Gro Windo nments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM credits available essment Criteria ere new materials are responsibly sou credits achieved are dependent on % ailed below:	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which	y be awarded where 80% of new mater is based upon the responsible sourcing ier level	Minimum Standa rials for an element are responsil g tier level of each material source Points 4	ords applicable	Yes India all new timber us ourced in accorda	9 sed in the plance with th
Internal walls (includin Upper and Gro Windo nments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM credits available essment Criteria ere new materials are responsibly sou credits achieved are dependent on % ailed below:	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which	y be awarded where 80% of new mater is based upon the responsible sourcing fer level	Minimum Standa ials for an element are responsil g tier level of each material source Points 4 3.5	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the plance with th
Internal walls (includin Upper and Gro Windo nments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM credits available essment Criteria ere new materials are responsibly sou credits achieved are dependent on % ailed below:	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which	y be awarded where 80% of new materia is based upon the responsible sourcing ier level	Minimum Standa rials for an element are responsil g tier level of each material source Points 4 3.5 3	ords applicable	Yes India all new timber us ourced in accorda	9 sed in the plance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly sou credits achieved are dependent on % ailed below:	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which	y be awarded where 80% of new mater is based upon the responsible sourcing ier level 1 2 3 4	Minimum Standa rials for an element are responsil g tier level of each material source Points 4 3.5 3 2.5	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the plance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly sou credits achieved are dependent on % ailed below:	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which	y be awarded where 80% of new mater is based upon the responsible sourcing ier level 1 2 3 4 5	Minimum Standa rials for an element are responsil g tier level of each material source Points 4 3.5 3 2.5 2	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the plance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly sou credits achieved are dependent on % ailed below:	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which	y be awarded where 80% of new mater is based upon the responsible sourcing ier level 1 2 3 4 5 6	Minimum Standa rials for an element are responsil g tier level of each material source 4 3.5 3 2.5 2 1.5	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the plance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly sou credits achieved are dependent on % ailed below:	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which	y be awarded where 80% of new mater is based upon the responsible sourcing ier level 1 2 3 4 5 6 7	Minimum Standa rials for an element are responsil g tier level of each material source 4 3.5 3 2.5 2 1.5 1	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the pr ance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits ressment Criteria erer new materials are responsibly sou credits achieved are dependent on % cailed below:	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which	y be awarded where 80% of new mater is based upon the responsible sourcing ier level 1 2 3 4 5 6	Minimum Standa rials for an element are responsil g tier level of each material source 4 3.5 3 2.5 2 1.5	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the pr ance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits ressment Criteria erer new materials are responsibly sou credits achieved are dependent on % cailed below:	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which T	y be awarded where 80% of new mater is based upon the responsible sourcing ier level 1 2 3 4 5 6 7	Minimum Standa rials for an element are responsil g tier level of each material source 4 3.5 3 2.5 2 1.5 1	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the pr ance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits aressment Criteria tere new materials are responsibly sou credits achieved are dependent on % vailed below: Table 1	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which T	y be awarded where 80% of new materials based upon the responsible sourcing for level	Minimum Standa rials for an element are responsil g tier level of each material source Points 4 3.5 3 2.5 2 1.5 1 1 0	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the pr ance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits aressment Criteria tere new materials are responsibly sou credits achieved are dependent on % vailed below: Table 1	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which T	y be awarded where 80% of new mater is based upon the responsible sourcing ier level 1 2 3 4 5 6 7 8 8 XM credits	Minimum Standa rials for an element are responsil g tier level of each material source 4 3 2.5 2 1.5 1 0 % of available points achieved	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the pr ance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits aressment Criteria tere new materials are responsibly sou credits achieved are dependent on % vailed below: Table 1	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which T	y be awarded where 80% of new mater is based upon the responsible sourcing ier level 1 2 3 4 5 6 7 8 8 8 8 8 12	Minimum Standa rials for an element are responsil g tier level of each material source Points 4 3.5 3 2.5 2 1.5 1 0 % of available points achieved ≥54%	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the pr ance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria tere new materials are responsibly sou ceredits achieved are dependent on % tailed below: Table 1	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which T	0.15           1.4           1.4           y be awarded where 80% of new mater           is based upon the responsible sourcing           ier level           1           2           3           4           5           6           7           8           EAM credits           10	Minimum Standa rials for an element are responsil g tier level of each material source 4 3.5 3 2.5 2 1.5 1 1 0 % of available points achieved ≥54% ≥45%	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the pr ance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria tere new materials are responsibly sou ceredits achieved are dependent on % tailed below: Table 1	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which T	0.15         1.4         1.4         y be awarded where 80% of new mater         is based upon the responsible sourcing         ier level         1         2         3         4         5         6         7         8         EAM credits         12         10         8	Minimum Standa rials for an element are responsil g tier level of each material source 4 3.5 3 2.5 2 1.5 1 0 % of available points achieved 254% 245% 236%	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the plance with th
Internal walls (includin Upper and Gro Windo mments at 02 Responsible Sourcing of Ma No. of BREEAM credits available No. of BREEAM innovation credits aressment Criteria tere new materials are responsibly sou credits achieved are dependent on % vailed below: Table 1	g separating walls) pund Floor ws terials 12 0 urced, up to 12 credits ma s of point achieved which T	0.15           1.4           1.4           y be awarded where 80% of new material is based upon the responsible sourcing           is based upon the responsible sourcing           ier level           1           2           3           4           5           6           7           8           10           8           6	Minimum Standa         ials for an element are responsil         g tier level of each material source $Points$ 4         3.5         3         2.5         2         1.5         1         0         % of available points achieved         >54%         >45%         >36%         >27%	ords applicable	Yes Indice all new timber us ourced in accorda vernment's Timbe	9 sed in the plance with th

Mat 03 Insulation		
No. of BREEAM credits available	8	Availa
No. of BREEAM innovation credits	0	
Assessment Criteria		
Where any new insulation specified for		round floor, roof and buildings services meet the fo
	Requirements	
		Where the Insulation Index for new insulation
	4 Credits	Where Green Guide ratings are determined using t
		tool
	Requirements	
	4 Credits	Where ≥ 80% of the new thermal insulation use
	4 Creans	responsibly sourced
Comments		
WASTE		Section Weighting: 3%
Was 01 Household Waste		
No. of BREEAM credits available	2	Availa
No. of BREEAM innovation credits	0	
Assessment Criteria		
Where compliant recycling and composi		up to two credits may be awarded as follows
-		st Credit - Recycling Facilities
Scen	ario	Internal recycling storage req
		3 internal recycling containers provided where
Compliant collectio	n scheme in place	1 internal recycling container provided where rec Minimum 30 litre total capacity, no single conta
		Dedicated position in accordance with
		3 internal recycling container
No compliant collecti		Minimum 60 litre total ca
No adequate ex	ternal storage	Dedicated position in accordance with
No compliant collect	on schomo in placo	3 internal recycling container
No compliant collection scheme in place Adequate external storage provided		Minimum 30 litre total capacity, no single contain
Adequate external	storage provided	Dedicated position in accordance with
	Second credit - Com	
With exter		Without external space
Where a composting service green/garc	, ,	Where a composting service or facility is provided for kitchen waste
Where a composting service		Where an interior container is provided for kitcher
kitchen		composting waste of at least 7 litres
Where an interior contain		
composting waste		
Comments		



	1.80% No
ivinimum standards applicable	Indicative Credi
management plan to be implemented as follows	2
	Indicative Innovat
	Credits Achieve
Where a compliant Level 1; Site Waste Management Plan (SWMP) is in place	
Where a compliant Level 1; Site Waste Management Plan (SWMP) is in place	
Where a compliant Level 2; Site Waste Management Plan (SWMP) is in place	
Non-hazardous construction waste generated by the dwellings refurbishment	
meets or exceeds the resource efficiency benchmark	
The percentage of non-hazardous construction waste and demolition waste	
generated by the project has been diverted from landfill and meets or exceeds	
the refurbishment & demolition waste diversion benchmarks	
Where a compliant level 2: Cite Waste Management Plan (CWARD) is in place	
where a compliant Level 2; site waste Management Plan (SWMP) is in place	
First credit achieved	
Non-hazardous construction waste generated by the dwellings refurbishment	
meets or exceeds the resource efficiency benchmark	
Amount of waste generated against £100,000 of project value is recorded in the	
Pre-refurbishment audit of the existing building is completed	
If demolition is included as part of the refurbishment programme, then the audit	
should also cover demolition materials	
Where the first two credits have been achieved achieved	
Where Non-hazardous demolition waste generated by the dwellings	
refurbishment meets or exceeds the refurbishment & demolition waste diversion	
Where non-hazardous construction waste generated by the dwellings	
refurbishment meets or exceeds the exemplary level resource efficiency	
Where Non-hazardous demolition waste generated by the dwellings	
	Non-hazardous construction waste generated by the dwellings refurbishment meets or exceeds the resource efficiency benchmark         The percentage of non-hazardous construction waste and demolition waste generated by the project has been diverted from landfill and meets or exceeds the refurbishment & demolition waste diversion benchmarks         Where a compliant Level 2; Site Waste Management Plan (SWMP) is in place         First credit achieved         Non-hazardous construction waste generated by the dwellings refurbishment meets or exceeds the resource efficiency benchmark         Amount of waste generated against £100,000 of project value is recorded in the Pre-refurbishment audit of the existing building is completed         If demolition is included as part of the refurbishment programme, then the audit should also cover demolition waste generated by the dwellings refurbishment meets or exceeds the resource the relaxience of the refurbishment programme, then the audit should also cover demolition waste generated by the dwellings refurbishment meets or exceeds the refurbishment & demolitions         Where the first two credits have been achieved achieved         Where non-hazardous demolition waste generated by the dwellings refurbishment meets or exceeds the refurbishment & demolition waste diversion

POLLUTION		Section Weighting: 6%	
Pol 01 NOx Emissions			
No. of BREEAM credits available	3		Available
No. of BREEAM innovation credits	0		N
Assessment Criteria			
Credits are awarded on the basis of NOx follows:	emissions arising from th	e operation of space heating and	hot water systems for
			Dry NOx E
		ne Credit	≤100 mg/kWh (N0
		vo Credits	≤70 mg/kWh (NC
• ·	Th	ree Credits	≤40 mg
Comments			
Pol 02 Surface Water Runoff			
No. of BREEAM credits available	3		Available
No. of BREEAM innovation credits	1		N
Assessment Criteria			
Where impacts of the refurbishment on	surface water runoff are i	neutralised or where runoff is rec	luced as a result of refu
credits can be awarded as follows:			
	Requirements		
One C	redit		v hard standing areas m
Neutral Impact or		If building on to previous	
· ·	<b>.</b>	Calculations should	be carried out by an ap
	Requirements	W/boro the	ritaria naadad far Ona
		Where all run-off from the ro	criteria needed for One
OR Secon	d Credits	where an run-on nom the ro	source control m
		Include ru	noff from all existing ar
Reducing Run-Off	From Site: Basic	An appropriately qualified	
			strategy for the
	Requirements		
		Where run-off as a result of th	
		An appropriately qualified pro	ofessional should be use
OR Three	C	strategy for the site. The peak rate of run-off as a re	
OK III'ee	creats	reduced by 75% from the exist	
Reducing Run-Off Fr	om Site: Advanced	The total volume of run-off di	
neudenig han on th		refurbishment, for a 1 in 100 y	
		An allowance for climate chan	
		with current best practice (PP	
	Requirements		
		Where all run-off from the de	
		The peak rate of run-off as a r	
			reduced to zero.
Free as also	Con dit	The peak rate of run-off as a re	
Exemplar	y Credit	There is no volume of run-of	is reduced to zero.
		result of the refurbishme	
		An allowance for climat	
			ance with current best p
Comments			

No. of BREEAM credits available	2	Available contribution to overall score 1.50%
No. of BREEAM innovation credits	0	Minimum Standards applicable Yes
ssessment Criteria		Indicative Cr
here the dwelling is located in a low flood risk :	zone, or where in a	medium to high flood risk zone and a flood resilience/resistance strategy has been
plemented, up to two credits can be awarded a	as follows:	<i>,</i> ———
Minimum Standards	;	A minimum of two credits must be achieved for this issue at the Excellent and Outstanding levels
Option 1 - Low Flood Risk		
Two Credits		Where a Flood Risk Assessment (FRA) has been carried out and the assessed dwellings are defined as having a low annual probability of flooding.
Option 2 - Medium / High Flood Risk		
		Where a Flood Risk Assessment (FRA) has been carried out and the assessed dwellings are defined as having a medium or high annual probability of flooding.
Two Credits		Two credits are awarded where as a result of the dwellings floor level or measures to keep water away the dwelling is defined as achieving avoidance from flooding by following Checklist A-10; Decision Strategy Flow Chart.
		Where avoidance is not possible, two credits are achieved where a full flood resilience/resistance strategy is implemented for the dwellings in accordance with recommendations made by a Suitably Qualified Building Professional
omments		

