Green

metropolis Sustainability Statement

61-65 Charlotte Street, W1T 4PG London Borough of Camden

On behalf of Merchant Land Investments Ltd

16/03/2015 Job Ref: 5313

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Revision	Changes Document created for planning	Date 16/03/2015



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Planning Masterplanning Architecture Renewable Energy Sustainable Development



EXECUTIVE SUMMARY

- This Sustainability Statement has been prepared by Metropolis Green on behalf of Merchant Land Investments Ltd in support of the full planning application for the proposed development at 61 – 65 Charlotte Street.
- II. The proposal includes refurbishment, redevelopment and extension of a dilapidated mixed use 4 storey building. It includes retention of the existing front façade, replacement of the existing rear extension and internal refurbishment to optimize office use on the site totalling 835m². The proposal also includes refurbishment of the existing retail spaces totalling 85.8m² at ground floor, and a change of use of the upper four floors to provide 7 residential units.
- III. This Sustainability Statement details how the design team has considered the site's potential environmental impacts and how those impacts can be managed and mitigated in line with the prevailing spatial planning policies in the London Borough of Camden and the BREEAM environmental assessment schemes.
- IV. London Borough of Camden Policy DP22, adopted in November 2010, requires the residential elements of the development to achieve an Excellent rating under BREEAM Domestic Refurbishment (BDR). The non-residential elements of the scheme are required to achieve a BREEAM 'Very Good' rating under DP22. This report demonstrates how compliance with this policy can be achieved for this development.
- V. London Borough of Camden Planning Guidance document CPG3, adopted in September 2013, sets an aspiration for non-residential developments to achieve BREEAM 'Excellent' from 2013. As a refurbishment project and due to site constraints in terms of location within a conservation area, it is not feasible to achieve BREEAM 'Excellent' for the non-residential element of this scheme, however as outlined above the scheme is compliant with the adopted Policy DP22.
- VI. BREEAM Non-Domestic Refurbishment and Fit Out 2014 (BNDR) was released by BRE in December 2014 and is applicable to existing nondomestic dwellings undergoing refurbishment. As the most applicable BREEAM scheme for this development, compliance with DP22 has been demonstrated through the application of this scheme to the office areas of this development. Given the recent release of this scheme, the practicalities of achieving certification under this scheme are unknown, however with our experience of previous BREEAM schemes we have deemed the achievement of BREEAM 'Very Good' is achievable under BNDR for the proposed office scheme at 61-65 Charlotte Street.



- VII. The proposed redevelopment has targeted sustainability throughout the lifetime of the building. In particular, energy and water efficiency measures will be integral to the building's design and specification. The building has been designed to prevent overheating and avoid excessive requirements for heating and cooling, along with measures to reduce the overall impact of the construction phase and to ensure the ecological value of the site is enhanced. The proposed redevelopment satisfies the high standards of sustainability as prescribed by the London Borough of Camden planning policy.
- VIII. BDR and BNDR Pre-assessments have been undertaken for the development and the residential dwellings achieve an 'Excellent' rating with a score of 71.05% under BDR and the office areas achieve a 'Very Good' rating with a score of 64.38% under BNDR.



CONTENTS

EXE	EXECUTIVE SUMMARY			
CON	TENTS	5		
1.0	I.0 INTRODUCTION			
2.0	SITE AND PROPOSED DEVELOPMENT	9		
2.1	Site and Surrounding Area	9		
2.2	Proposed Development	9		
3.0	BRIEF POLICY CONTEXT	13		
3.1	National Policy	13		
3.2	Regional Policy	13		
3.3	Local Policy	13		
3.4	BREEAM Domestic Refurbishment	15		
3.5	BREEAM Non Domestic Refurbishment 2014	16		
4.0	BREEAM DOMESTIC REFURBISHMENT SUMMARY	19		
4.1	Management	19		
4.2	Health and Wellbeing	20		
4.3	Energy	21		
4.4	Water	23		
4.5	Materials	23		
4.6	Waste	24		
4.7	Pollution	25		
5.0	BREEAM NON DOMESTIC REFURBISHMENT SUMMARY			
5.1	Management			
5.2	Health and Wellbeing	28		
5.3	Energy	29		
5.4	Transport	30		
5.5	Water	31		
5.6	Materials	32		
5.7	Waste	33		
5.8	Land use and Ecology	34		
5.9	Pollution	34		
6.0	CONCLUSIONS			



APPENDIX A: POLICY SUMMARY
National Policy
Regional Policy4
Local Policy4
APPENDIX B: BREEAM DOMESTIC REFURBISHMENT PRE-ASSESSMENT 4
APPENDIX C: BREEAM NON DOMESTIC REFURBISHMENT PRE-ASSESSMENTS



1.0 INTRODUCTION

- 1.0.1 This Sustainability Statement has been prepared by Metropolis Green, to accompany the planning application, submitted to the London Borough of Camden by Merchant Land Investments Ltd, for the proposed development at 61-65 Charlotte Street.
- 1.0.2 This report addresses relevant planning policy the applicable standards and issues contained within the BDR and BNDR environmental assessment methodologies.
- 1.0.3 London Borough of Camden Policy DP22, adopted in November 2010, requires the residential elements of this development to achieve an 'Excellent' rating under BDR. The non-residential elements of the scheme are required to achieve BREEAM 'Very Good' under DP22. This report demonstrates how compliance with this policy can be achieved for this development.
- 1.0.4 London Borough of Camden Planning Guidance document CPG3, adopted in September 2013, sets an aspiration for non-residential developments to achieve BREEAM 'Excellent' from 2013. As a refurbishment project and due to site constraints in terms of location within a conservation area, it is not feasible to achieve BREEAM Excellent for the non-residential element of this scheme, however the mandatory requirements have been achieved and justification has been provided within the pre-assessment at Appendix C where credits have not been pursued. As outlined above the scheme is compliant with the adopted Policy DP22.
- 1.0.5 Due to the small size of the two retail spaces (82sqm) within the proposals and the limited scope of works, it is not appropriate to implement a BREEAM assessment for this space. A separate BREEAM assessment would be required for these small units and the cost of implementation would be disproportionate to the cost of the units and would make them economically unviable for lease as the cost would need to be recouped from the rent. Furthermore these spaces will inherently benefit from the site-wide benefits of the implementation of the other environmental assessment methods, in areas such as drainage, materials efficiency, site management, ecology and energy reduction.
- 1.0.6 This report highlights where a sustainability standard can be met and how this will be achieved. This report assumes a basic understanding of the BREEAM assessment process. For further information please refer to the BDR and the BNDR scheme Technical Manuals, available from BRE Global Ltd. Pre-Assessment summaries for both schemes



have been prepared by Metropolis Green and can be found in Appendix B & C.

1.0.7 This report should also be read alongside other supplemental reports prepared by the design team for the planning application, including the Energy Strategy prepared by Metropolis Green and the Design and Access Statement prepared by Harper Downie Architects.



2.0 SITE AND PROPOSED DEVELOPMENT

2.1 Site and Surrounding Area

2.1.1 61-65 Charlotte Street is formed of three terraced town houses located in Fitzrovia, central London and site is administrated by the London Borough of Camden. The sites location provides good access to transport nodes, local amenities and open green space.

2.2 Proposed Development

- 2.2.1 The proposals work to enable the building to be brought back to life from its current vacant and derelict condition. Introducing much-needed housing, whilst replacing and relocating the former office space with new high quality flexible space to suit the requirements of two new longterm pre-let SME business tenants.
- 2.2.2 It is proposed that the existing office use (Use Class B1) to the upper floors of Nos 61 & 63 will be converted to residential use (Use Class C3) to accommodate 7 new residential units across a diverse mix, ranging from studios to three bed family units. This includes retaining the existing residential use of No 65 at third floor as well as providing an additional floor of residential use to all three properties.
- 2.2.3 The existing office use and area to the upper floors of Nos 61& 63 will therefore be relocated and upgraded. This will be achieved by means of re-development and extension of the existing rear extension office and ground floor office of No.61 Charlotte Street. The existing use of the ground floor at No.63 will be retained as retail (Use Class A1). The Class A3 cafe use at No.65 ground floor is proposed to be changed to A1 retail in order to improve the character and activity of this length of Charlotte Street, No.61 ground floor will be retained as office use.
- 2.2.1 Below are the latest drawings of the proposed development produced by Harper Downie.





Figure 1 – Lower Ground Floor Level





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Figure 3 – First Floor Level













3.0 BRIEF POLICY CONTEXT

- 3.0.1 Sustainable development is the "golden thread" principle underpinning planning and planning has a key role to play in the creation of sustainable communities. A summary of the planning policy context for the site and proposed development is provided below. For a detailed breakdown of the full sustainability policy context, please refer to Appendix A.
- 3.1 National Policy

National Planning Policy Framework, March 2012

3.1.1 The National Planning Policy Framework (NPPF) was published in March 2012. It sets out the Government's planning policies for England and how these policies are expected to be applied. The policies in the document, taken as a whole, constitute the Government's view of what sustainable development in England means in practice for the planning system. Regional and Local policy is informed by the content and structure of the NPPF.

3.2 Regional Policy

The London Plan: Spatial Development Strategy for Greater London, July 2011

3.2.1 The London Plan was published in July 2011 and is the overall strategic plan for London, setting out an integrated economic, environmental, transport and social framework for the development of London to 2031. The policies relevant to this report are found in Chapter 5 (and to a lesser extent in Chapter 7) of the London Plan. This scheme is classified as a minor development under London Plan definition and therefore this Regional Policy is not applicable for this report.

3.3 Local Policy

London Borough of Camden Core Strategy 2010-2025

3.3.1 The London Borough of Camden's Core Strategy sets out the key elements of the Council's planning vision and strategy for the borough. It is the central part of Local Development Framework (LDF) and was adopted in November 2010. The LDF is a group of documents setting out the borough's planning strategy and policies.

CS13 – Tackling climate change through promoting higher environmental standards



3.3.2 The Core Strategy Policy CS13 sets out the approach that developers should take when considering energy and carbon reductions for developments.

London Borough of Camden Development Policies 2010-2025

3.3.3 The Core strategy has informed the Council's Development Polices. Section 3 of this particular document sets out a number of policies to promote sustainability and tackle climate change.

Policy DP22 - Promoting sustainable design and construction

The Council will require development to incorporate sustainable design and construction measures. Schemes must:

- a) demonstrate how sustainable development principles, including the relevant measures set out in paragraph 22.5 below, have been incorporated into the design and proposed implementation; and
- b) incorporate green or brown roofs and green walls wherever suitable.

The Council will promote and measure sustainable design and construction by:

- expecting developments (except new build) of 500sqm of residential floorspace or above or 5 or more dwellings to achieve 'excellent' in EcoHomes assessments from 2013 and at least 'very good' prior to 2013;
- e) expecting non-domestic developments of 500sqm of floorspace or above to achieve 'very good' in BREEAM assessments, with the aim of increasing the target to a rating of at least 'excellent' in 2016, if feasible, and zero carbon from 2019, in line with the government's ambitions.

The Council will require development to be resilient to climate change by ensuring schemes include appropriate climate change adaptation measures, such as:

- f) summer shading and planting;
- g) limiting run-off;
- h) reducing water consumption;
- i) reducing air pollution; and
- j) not locating vulnerable uses in basements in floodprone areas.



Policy DP23 - Water

3.3.4 The objectives of Section 3 are enforced through policy DP22 Promoting sustainable design and construction and DP23 Water.

London Borough of Camden Planning Guidance Sustainability (CPG3)

- 3.3.5 CPG3 contains advice and guidance for developers on ways to achieve carbon reductions and more sustainable developments. It also highlights the Council's requirements and guidelines which support the relevant Local LDF policies, including DP22 as noted above.
- 3.3.6 The following aspirational targets are outlines in CPG3, which developer are strongly encouraged to target::

Time period	Minimum rating (BDR/BREEAM)	Minimum standard for categories - % of un-weighted credits – (EcoHomes/Code)	
2010-2012	Very Good	Energy -60%	
2013+	Excellent	Water – 60% Materials – 40%	

3.4 BREEAM Domestic Refurbishment

- 3.4.1 The BDR assessment scheme is an environmental performance standard against which residential refurbishment projects in the UK can be assessed, rated and certified. It is not applicable to new build development, where the Code for Sustainable Homes would apply.
- 3.4.2 BDR covers seven categories of sustainability (plus an additional eighth category for Innovation) including: Management; Health and Wellbeing; Energy; Water; Materials; Pollution; and Waste.
- 3.4.3 Credits are awarded in the various categories according to performance. These credits are then added together to produce a single overall score on a scale of Pass, Good, Very Good, Excellent and Outstanding.
- 3.4.4 Each category consists of a number of issues and each issue addresses a specific building-related environmental impact and has a number of credits assigned to it. BREEAM credits are awarded where a building demonstrates that it meets the best practice performance levels defined for that issue i.e. it has mitigated an impact or addressed a specific building occupant-related issue.



- 3.4.5 The number of credits available for an individual assessment issue will vary and generally the higher the number there are for a given issue, the more important that issue is in terms of mitigating its impact. In most cases, where there are multiple credits available, the number awarded is based on a sliding scale or benchmark, where progressively higher standards of building performance are rewarded with a higher number of credits.
- 3.4.6 Most BDR issues are tradable, meaning that a design team or developer can choose the issues they wish to comply with, in order to build up their overall performance score. However, there are some minimum standards (also known as mandatory requirements) which need to be met in various issues in order to achieve the aspired BDR rating.
- 3.4.7 A scheme can be assessed at the Design Stage (DS), leading to an Interim BREEAM certified rating, and/or the Post Refurbishment Stage (PRS), leading to a Final BREEAM certified rating.

3.5 BREEAM Non Domestic Refurbishment 2014

- 3.5.1 The Building Research Establishment Environmental Assessment Method (BREEAM) is the world's leading and most widely used environmental assessment method for buildings. It sets the standard for best practice in sustainable design and is used to describe a building's designed environmental performance.
- 3.5.2 BNDR is a performance based assessment method and certification scheme for the refurbishment of non-residential buildings. The primary aim of BNDR is to mitigate the life cycle impacts of refurbished non-residential buildings on the environment, in a robust and cost effective manner.
- 3.5.3 BNDR is the first scheme released by BRE to specifically address refurbishment projects. The scheme was launched in December 2014 so is a very new process for the BRE, Assessors and Developers alike.
- 3.5.4 BREEAM credits are also awarded in 9 categories (plus an additional Innovation category) of sustainable design according to performance. These credits are then added together to produce a single overall score on a scale of Pass, Good, Very Good, Excellent and Outstanding, dependent on the total score received from achieving credits across the various categories. There are minimum standards that must be achieved in order to meet the higher rating levels under BREEAM. For more detail, please refer to the BNDR Technical Manual¹.



¹ http://www.breeam.org/ndrefurb2014manual/

- 3.5.5 The BNDR scheme can be used to assess the environmental life cycle impacts of existing non-domestic buildings at the refurbishment and fitout stages. The definition of 'refurbishment' encompasses a wide range of works to improve the performance, function and overall condition of an existing building. 'Fit-out' also encompasses a wide range of works, however it is more associated with internal works to the building including the first fit-out of a newly constructed building or re-fitting an existing building.
- 3.5.6 The BNDR scheme provides a modular set of criteria that are applied depending upon the scope of works for a particular project type including:
 - Part 1: Fabric and Structure
 - Part 2: Core Services
 - Part 3: Local Services
 - Part 4: Interior Design
- 3.5.7 The scheme is split into these assessment parts to allow the scheme to reflect the aspects of a building that are tenant or landlord responsibilities, as well as the varied life cycle stages that each component or element is upgraded. For example, interior finishes are typically replaced on a 5-10 year cycle compared to the fabric and structure of a building that may be upgraded after 60+ years. For commercial buildings, parts 1 and 2 typically reflect the aspects of a building that are landlord responsibilities, with parts 3 and 4 typically being aspects of the building that are tenant responsibilities although this will vary between specific projects.
- 3.5.8 The proposals for the office space at 61-65 Charlotte Street can be considered to be a 'Major refurbishment'. Therefore as outlined in the BNDR Technical Guide² the scheme will be assessed against all 4 of the Parts outlined above.
- 3.5.9 As mentioned above, a BNDR pre-assessment has not been prepared for the retail space due to its small size (82 sqm), the constraints of the site, the location of the site within a Conservation Area and the minor works occurring.
- 3.5.10 The Retail elements of the development will be designed and constructed in a sustainable manner and will benefit from the site-wide sustainability initiatives implemented as part of this strategy and the BDR and BNDR assessments implemented. The site-wide issues incorporate ecological enhancement, sustainable drainage systems,



² http://www.breeam.org/ndrefurb2014manual/

low and zero carbon technologies, secure design and sustainable construction practices.

3.5.11 The approach to BDR and BNDR assessments are detailed in the following section of this report.



4.0 BREEAM DOMESTIC REFURBISHMENT SUMMARY

- 4.0.1 This section of the report describes how credits can be achieved in each of the BDR categories, for the residential spaces. It is important to note that as the project progresses some of these scores may change. The current score is very close to the boundary for Excellent, with a score of 71.05%. Credits have been maximised wherever possible within the assessment and few opportunities remain to improve this score should credits be dropped during the construction phase.
- 4.0.2 The minimum category percentage, as set out in CPG3, have been achieved in the Energy (60%), Water (60%) and Materials (40%) categories.

4.1 Management

- 4.1.1 The Management category targets both the construction stage and the way dwellings are managed during occupation.
- 4.1.2 A Home User Guide will be produced which will include information regarding: energy efficiency; water use; sustainable improvement recommendations, local transport facilities; materials; waste; emergency information; and local amenities. This provision has been allocated 3 credits under issue Man 01 – Home Users Guide.
- 4.1.3 It is anticipated that the main contractor for the project will achieve beyond the good practice standards of the Considerate Constructors Scheme's Code of Considerate Practice and will obtain a score between 25 and 34. Accordingly, 1 credit has been allocated under issue Man 02 – Responsible Construction Practices.
- 4.1.4 Additionally, a commitment has been made to meeting the requirements of issue Man 03 Construction Site Impacts. All site timber will be sourced in line with the UK Government's Timber Procurement Policy and Chain of Custody certificates will be obtained. The proposed development is classified as a Large Scale Project under this issue and, as such, 4 or more of the following actions will be undertaken, allowing for the allocation of 1 credit under Man 03.
 - a. monitor, report and set targets for CO₂ production of energy use arising from site activities;
 - b. monitor, report and set targets for water consumption arising from site activities;
 - c. a main contractor with an environmental materials policy;



- d. a main contractor that operates an Environmental Management System; and/or
- e. 80% of site timber is reclaimed, re-used or responsibly sourced
- 4.1.1 The development will ensure all external doors and accessible windows meet minimum standards and appropriately certified and a Police Architectural Liaison Officer (ALO) or a Crime Prevention Design Advisor (CDPA) will also be consulted at the applicable stage. Therefore, 2 credits have been allocated for Man 04 – Security.
- 4.1.2 A site survey will be carried out by a Suitably Qualified Ecologist to determine the presence of any ecological features, prior to commencement of any refurbishment works, and recommendations made within the Ecologist's report will be implemented.
- 4.1.3 The project is expected to have a construction value of more than £100,000 and is therefore defined as a Large Scale Project under issue Man 06 Project Management. Once planning approval is obtained the project manager will assign individual and shared responsibilities at the appropriate stages.
- 4.1.4 In addition as part of the handover to the occupant, a meeting will be arranged and 2 of the following actions will be committed to:
 - a. A site inspection within 3 months of occupation
 - b. Conduct post occupancy interviews with building occupants or a survey via phone or posted information within 3 months of occupation
 - c. Longer term after care e.g. a helpline, nominated individual or other appropriate system to support building users for at least the first 12 months of occupation

Therefore, 2 credits have been allocated for issue Man 06 – Project Management.

4.1.5 Overall 10 of the available 11 credits have been allocated in this category, which as a result of weighting, contributes 10.91% to the total score.

4.2 Health and Wellbeing

- 4.2.1 The Health and Wellbeing category covers factors that can contribute to the overall comfort and welfare of the occupants.
- 4.2.2 The seven converted dwellings are expected to result in a neutral impact upon the daylighting levels of the existing spaces. Additionally, it is anticipated that the new build apartment extension on the 4^{th} floor



will achieve a minimum daylight level of 1.5% for the study, dining and living room. Full daylighting calculations will be prepared at the detailed design stage to determine the average daylight factor and view of sky for the relevant rooms in order to allocate credits. Therefore, 1 credit has been allocated for Hea 01 – Daylighting at this stage.

- 4.2.3 It is proposed that upon post completion testing the separating floors and wall of the seven converted dwellings, will meet the Building Regulations Part E standards in full. As such 2 credits have been allocated Hea 02 – Sound Insulation.
- 4.2.4 An Access Statement will be prepared and the relevant BRE checklist will be addressed by an access expert or suitably qualified member of the design team.
- 4.2.5 Sufficient ventilation will be provided for the dwellings so that they meet the minimum levels of background ventilation for all habitable rooms, kitchens, utility rooms and bathrooms compliant with Section 5 of Building Regulations Part F in full. As such 2 credits have been allocated under Hea 05 – Ventilation.
- 4.2.6 The design team will ensure that compliant fire and carbon monoxide (CO) detection and alarm systems are specified in line with the requirements of Hea 06 - Safety and 1 credit has been allocated for this issue.
- 4.2.7 Overall 8 of the available 12 credits have been allocated in this category, which as a result of weighting, contributes 11.33% to the total score.

4.3 Energy

- 4.3.1 The reduction of CO₂ emissions from the building is assessed through BDR issues Ene 01-04. An Energy Strategy has been produced by Metropolis Green which sets out the proposed energy efficiency, low and zero carbon solutions proposed for this site.
- 4.3.2 High standards of fabric energy efficiency will be achieved through high quality construction standards, energy efficient plant and equipment and high levels of insulation. High efficiency gas boilers will supply space and water heating for the dwellings.
- 4.3.3 Results of calculations completed for the energy demand statement indicate that the seven converted dwellings Energy Efficiency Rating (EER) will be improved in line with the BDR scheme requirements which will ensure that at least 1 credits can be allocated at this stage under issue Ene 01 Improvement in Energy Efficiency Rating. Due to the development being a change of use the existing building performs



relatively well and therefore the improvement is not significant, despite the dwelling having high levels of energy efficiency.

- 4.3.4 Calculations confirm that the dwellings can achieve an Energy Efficiency Rating above the minimum standard required for an Outstanding rating, and 3.5 credits have been allocated at this stage for issue Ene 02 – Energy Efficiency Rating Post Refurbishment.
- 4.3.5 SAP calculations show that the dwellings will achieve a low Primary Energy Demand, and 6 credits have been allocated at this stage for issue Ene 03 Primary Energy Demand.
- 4.3.6 Energy efficient white goods will be specified for the dwellings in accordance with the EU Energy Efficiency Labelling Scheme and as such 2 credits have been awarded under Ene 05 Energy Labelled White Goods.
- 4.3.7 An adequate and secure drying line for clothes will be provided; therefore 1 credit has been allocated under issue Ene 06 – Drying Space. This should reduce the need for energy intensive tumble drying.
- 4.3.8 The existing external and internal lighting will be replaced with energy efficient lighting and new energy efficient lighting will be installed within the 4th floor extension. The maximum average wattage across the total floor area of the dwelling will be 9 watts/m². Therefore, 2 credits have been allocated under Ene 07 Lighting.
- 4.3.9 Accessible energy display devices capable of displaying electricity and heating fuel usage will be specified for all dwellings, and as such 2 credits have been allocated under issue Ene 08 Display Energy Devices.
- 4.3.10 A study containing sufficient space and services for the provision of a compliant home office area will be provided. One credit has been allocated accordingly for Ene 10 Home Office.
- 4.3.11 Overall 19.5 of the 29 available credits have been allocated in this category, which as a result of weighting, contributes 28.91% to the total score.
- 4.3.12 The BDR Pre-Assessment indicates that there is potential for this site to achieve at least 67% of the credits in the Energy category under BDR. Therefore exceeding the requirements of London Borough of Camden Policy DP22 to achieve 60% of the available credits in this category under BREEAM.



4.4 Water

- 4.4.1 The Water category targets the reduction of water consumption and ensures monitoring of water use in the development.
- 4.4.2 The design team will target a water consumption of 107-118 litres/person/day for the dwellings and will achieve the mandatory requirements for 'Excellent'. At the time of the full assessment the design team will ensure that the dwelling achieves the required calculated water consumption and 2 credits have been allocated under issue Wat 01 Internal Water Use.
- 4.4.3 The development will only contain balconies for the dwellings and no other external space, therefore, the 1 available credit for the issue Wat 02 External Water Use is awarded by default.
- 4.4.4 A compliant water meter on the mains supply will be specified and as such, 1 credit has been allocated under issue Wat 03 Water Meter.
- 4.4.5 Overall 4 of the available 5 credits have been allocated in this category, which as a result of weighting, contributes 8.80% to the total score.
- 4.4.6 The BDR Pre-Assessment indicates that there is potential for this site to achieve at least 80.00% of the credits in the Water category. Therefore exceeding the requirements of Policy DP22 to achieve 60% of the available credits in this category.

4.5 Materials

- 4.5.1 BREEAM awards credits on the basis of the specification and use of materials with lower environmental impacts (in accordance with the BRE Green Guide to Specification) over their lifecycle and the optimisation of thermal performance of key building elements.
- 4.5.2 The building elements to be assessed for the development include the roof, external walls, internal walls, upper and ground floors, and windows. Detailed information regarding the new materials to be specified in the building is required in order to complete the BREEAM Mat 01 calculator tool, to determine the final credits that can be awarded. It should be noted that the use of existing materials is rewarded by the Green Guide. At this stage 15 credits have been allocated based on the information available to the assessor. This issue will be reviewed at the detailed design stage when more detailed information will be available.
- 4.5.3 The design team will specify insulation with low embodied environmental impact to the extent feasible. Detailed information



regarding the insulation to be specified in the building is required in order to complete the BREEAM Mat 03 - Insulation calculator tool and to determine the final credits that can be awarded under issue Mat 03 - Insulation. Therefore, 4 credits have been allocated for this issue at this stage, but there is potential for the allocation of further credits in this area once the insulation products have been specified.

- 4.5.4 Overall 25 of the available 45 credits have been allocated in this category, which as a result of weighting, contributes 4.44% to the total score.
- 4.5.5 The BDR Pre-Assessment indicates that there is potential for this site to achieve 56% of the credits in the Materials category. Therefore exceeding the requirements of Policy DP22 to achieve 40% of the available credits in this category under BREEAM.

4.6 Waste

- 4.6.1 The Waste category deals with waste and recycling issues for both the construction stage and the occupation stage of the development
- 4.6.2 The London Borough of Camden provides a recycling collection scheme compliant with BDR requirements, however there is no space for provision of external storage. Therefore, the first credit under issue Was 01 Household Waste cannot be allocated. However the second credit under the Was 01 issue for BREEAM has been allocated, as the Local Authority operates a compliant composting facility and internal kitchen composting containers will be provided to the dwelling.
- 4.6.3 At the construction stage, a compliant Site Waste Management Plan (SWMP) will be prepared in line with the requirements to achieve 2 credits under issue Was 02 – Refurbishment Site Waste Management. This will involve undertaking a pre-refurbishment audit, including demolition materials.
- 4.6.4 The scheme will also need to achieve a resource efficiency level, where the amount of waste generated per $\pounds100,000$ of project value is $<26.52m^3$ or <16.90 tonnes.
- 4.6.5 Overall, 4 of the available 5 credits have been allocated in this category, which as a result of weighting, contributes 2.4% to the total score.



4.7 Pollution

- 4.7.1 The Pollution category aims to reduce the amount of air pollutants and nitrogen oxides (NOx) that are released into the atmosphere through the heating plant and to reduce the impact of the development on surface water runoff from the site.
- 4.7.2 Space heating and hot water for the proposed dwellings will be provided via Air Source Heat Pumps, which use grid electricity and therefore exceed the maximum NOx emissions to award any credits under Pol 01 NOx Emissions.
- 4.7.3 With respect to surface water runoff, the construction of the proposed development will take place within the existing envelope of the building and therefore, will not lead to an increase of impermeable surfaces and will have a neutral impact upon surface water runoff. Therefore, 1 credit has been allocated for Pol 01 Surface Water Runoff under BREEAM Domestic Refurbishment.
- 4.7.4 A review of Environment Agency information for the site shows it is located in a zone defined as having a low annual probability of flooding. A site-specific Flood Risk Assessment (FRA) will be completed at the appropriate stage and 2 credits have been allocated under issue Pol 03 Flooding.
- 4.7.5 Overall 3 of the available 8 credits have been allocated in this category, which as a result of weighting, contributes 2.25% to the total score.



5.0 BREEAM NON DOMESTIC REFURBISHMENT SUMMARY

- 5.0.1 This section of the report describes how credits can be achieved in each of the BNDR categories, for the office spaces. It is important to note that as the project progresses some of these scores may change; however, the design team will ensure that at all times the proposed development will remain above the threshold for a rating of 'Very Good'.
- 5.0.2 It is also noted that whilst the scheme cannot achieved BREEAM 'Excellent', an aspiration set out in CPG3, the mandatory credits for an 'Excellent' score have been achieved for this pre-assessment.
- 5.0.3 The minimum category percentage, as set out in CPG3, have been achieved in the Energy (60%), Water (60%) and materials (40%) categories.

5.1 Management

- 5.1.1 This category encourages the adoption of sustainable management practices in connection with design, construction, commissioning, and handover and aftercare activities to ensure that robust sustainability objectives are set and followed through into the operation of the building. Issues in this section focus on embedding sustainability actions through the key stages of design, procurement and initial occupation from the initial project brief stage to the appropriate provision of aftercare.
- 5.1.2 To recognise and encourage an integrated design process that optimises building performance, the project delivery stakeholders will meet prior to the completion of the Concept Design. The meeting will identify roles, responsibilities and contributions for each of the key phases of project delivery. As such 1 credit has been awarded for Man 01 Project brief and design: Stakeholder Consultation (Project Delivery).
- 5.1.3 Prior to completion of the Concept Design stage, all relevant third party stakeholders will be consulted by the design team, and the team will demonstrate how the stakeholder contributions and outcomes of the consultation exercise have influenced or changed the Initial Project Brief and Concept Design. Consultation feedback will also be given to all relevant parties As such 1 credit has been awarded for Man 01 Project brief and design: Stakeholder Consultation (Third Party).
- 5.1.4 The principal contractor will be encouraged to produce or operate a Sustainable Procurement Plan, operate an ISO 14001:2004



Environmental Management System (EMS), and implement Best Practice Pollution Prevention.

- 5.1.5 It is anticipated that the main contractor for the project will achieve beyond the good practice standards of the Considerate Constructors Scheme's (CCS) Code of Considerate Practice and will obtain a CCS score between 25 and 34.
- 5.1.6 In order to further promote sustainable and responsible construction practices, responsibility will be assigned to an individual(s) for monitoring, recording and reporting energy use (kWh), water consumption (m3).
- 5.1.7 Accordingly, 3 credits have been allocated under issue Man 03 Responsible Construction Practices.
- 5.1.8 To encourage a properly planned handover and commissioning process that reflects the needs of the building occupants, the design team has committed to a Commissioning and Testing Schedule. Where an appropriate project team member will have responsibility for monitoring and programming a budgeted commissioning schedule. Further a specialist commissioning manager will be appointed for all complex building services, for simple building services, this role can be carried out by an appropriate project team member.
- 5.1.9 To further ensure the easy and efficient operation of the buildings facilities and services, a non-technical Building User Guide (BUG) will be developed prior to handover for distribution to the building occupiers and premises managers. As a result of these measures 3 credits can be awarded for Man 04 Commissioning and Handover.
- 5.1.10 There will be a commitment by the development team to provide aftercare support to the building occupiers. Including introduction to the aftercare team or individual to the aftercare support available, present key information about features of the refurbished building including the design intent and how to use the building and on-site facilities management training. The initial aftercare support will be supplemented by longer term aftercare support provision for occupants for at least the first 12 months from occupation.
- 5.1.11 The design team have also committed to Seasonal Commissioning of the building systems for at least 12 months after occupation. This will include commissioning of all complex systems and building services by a Specialist Commissioning Manager.
- 5.1.12 The client or building occupier will commit to carry out a post occupancy evaluation (POE) exercise one year after initial building occupation. This is done to gain in-use performance feedback from building users to inform operational processes, including re-commissioning activities, and maintain or improve productivity, health, safety and comfort. The



POE is carried out by an independent party. Subsequently the scheme will receive 3 credits under Man 05 - Aftercare

5.1.13 Overall 11 of the available 20 credits have been allocated in this category, which as a result of weighting, contributes 6.94% to the total score.

5.2 Health and Wellbeing

- 5.2.1 This category encourages the increased comfort, health and safety of building occupants, visitors and others within the vicinity. The aim is to enhance the quality of life in buildings by recognising issues that encourage a healthy and safe environment for occupants.
- 5.2.2 The design team has committed to reducing potential for disabling glare through the provision of blinds and roof overhangs to all relevant building areas. It is proposed that daylighting provision, averaged over all relevant spaces, will be improved after refurbishment or fit-out by 30% or more. Internal and external lighting systems will be designed to avoid flicker and provide appropriate illuminance (lux) levels. Internal lighting will also be zoned to allow for occupant control. Together these commitments will deliver 3 credits under Hea 01 Visual comfort.
- 5.2.3 The re-development will minimise sources of air pollution through the implementation of an Indoor Air Quality (IAQ) plan. With the objective of facilitating a process that leads to design, specification and installation decisions and actions that minimise indoor air pollution during occupation. The building will also include measures to minimise the concentration and recirculation of pollutants, and will meet best practice ventilation levels. Subsequently the scheme will receive 2 credits under Hea 02 Indoor air quality.
- 5.2.4 To ensure that appropriate thermal comfort levels are achieved, a full Dynamic Simulation Model (DSM) analysis will be undertaken, to ensure summer and winter temperature criteria are adhered to. In addition this modelling will include; Adaptability for a projected climate change scenario, to ensure the building is resilient to potential future climate. The DSM analysis will also inform the design of thermal zoning and controls and contribute to the temperature control strategy, to ensure energy efficient and thermally comfortable operation. As such the scheme is eligible for all 3 credits under Hea 04 Thermal comfort.
- 5.2.5 It is proposed that a Suitably Qualified Acoustician (SQA) provides recommendations for the specification appropriate acoustic performance standards and testing for the acoustic principles of; Sound insulation, Indoor ambient noise level and Reverberation times, with a target for achieving 2 of these standards. As such 2 credits have been allocated for Hea 02 Sound Insulation.



- 5.2.6 A Suitably Qualified Security Specialist (SQSS) will be appointed to conducts an evidence based Security Needs Assessment (SNA) during or prior to Concept Design. A set of recommendations or solutions will be suggested to ensure that the design of the building address the issues identified in the preceding SNA. Further the Design team will commit to adopting these measures where applicable. Therefore 1 credit can be awarded for Hea 06 Safety and security.
- 5.2.7 Overall 11 of the available 19 credits have been allocated in this category, which as a result of weighting, contributes 9.62% to the total score.

5.3 Energy

- 5.3.1 This category encourages the specification and design of energy efficient building solutions, systems and equipment that support the sustainable use of energy in the building and sustainable management in the building's operation. Issues in this section assess measures to improve the inherent energy efficiency of the building, encourage the reduction of carbon emissions and support efficient management throughout the operational phase of the building's life.
- 5.3.2 Metropolis Green have produced an Energy Strategy for the development. The modelled Energy Performance Ratio for Non Domestic Refurbishment (EPR_{NDR}) is 0.549. Consequently 9 credits have been allocated for Ene 01 Reduction of energy use and carbon emissions.
- 5.3.3 The scheme will feature energy sub-metering of all major energy consuming systems that account for ≥10% of total energy consumption. These systems could include the following; Space heating, Domestic hot water heating, Humidification Cooling, Ventilation, i.e. fans (major), Pumps, Lighting, Small power, Renewable or low carbon systems (separately), Controls or other major energy-consuming systems/plant, where appropriate.
- 5.3.4 An accessible energy monitoring and management system or separate accessible energy sub-meters with pulsed output will be provided, covering a significant majority of the energy supply to appropriate functions of the tenanted areas. These measures result in 2 credits for Ene 02 Energy monitoring being awarded.
- 5.3.5 All external lighting will be specified to be energy efficient, with a minimum efficacy of 60 lumens/Watt. The lighting specification will also feature automatic controls to ensure operation only during hours of darkness. Alternatively, where the building does not have external lighting, one credit can be awarded by default. Therefore the scheme will achieve 1 credit for Ene 03 External lighting.



- 5.3.6 A feasibility has been carried out to establish the most appropriate recognised local (on-site or near-site) low or zero carbon (LZC) energy sources for the building. In the event that no suitable technologies are identified this credit can still be awarded for Ene 04 Low carbon design.
- 5.3.7 To recognise and encourage a reduction in the building's unregulated energy load, energy efficient equipment to ensure optimum performance and energy savings in operation will be specified. Therefore following equipment will have been awarded an Energy Star rating or has been procured in accordance with the Government Buying Standards:
 - a. Office equipment
 - b. Other small powered equipment
 - c. Supplementary electric heating.

As such the scheme has targeted 2 credits for Ene 08 - Energy efficient equipment

5.3.8 Overall 17 of the available 25 credits have been allocated in this category, which as a result of weighting, contributes 13.74% to the total score.

5.4 Transport

- 5.4.1 This category encourages better access to sustainable means of transport for building users. Issues in this section focus on the accessibility of public transport and other alternative transport solutions (cyclist facilities, provision of amenities local to a building) that support reductions in car journeys and, therefore, congestion and CO₂ emissions over the life of the building.
- 5.4.2 The proposed new office space at 61-65 Charlotte Street benefits from good public transport links, with central London and the wider area. The Public Transport Accessibility with the public transport Accessibility Index (AI) of 62.32. Therefore the scheme is eligible for 3 credits under Tra 01 Public Transport Accessibility. For further information on local public transport please refer to the Design and Access statement prepared by Harper Downie.
- 5.4.3 The site has been determined to have close proximity to an exemplary level of local amenities, relevant for offices (Type 1). This credit aims encourage and reward a building location that facilitates easy access to local services and so reduces the environmental, social and economic impacts resulting from multiple or extended building user journeys,



including transport-related emissions and traffic congestion. As such 1 credit has been awarded for Tra 02 - Proximity to Amenities.

- 5.4.4 It is proposed that the building will have compliant cycle spaces with cyclist facilities, in the form of at least 2 of the following; Showers, Changing facilities, Lockers, Drying spaces. Therefore two credits can still be awarded for Tra 03 Cyclist facilities.
- 5.4.5 The design team have committed to producing a Travel Plan that will involve consideration of a range of travel options for building users, thereby encouraging the reduction of reliance on forms of travel that have the highest environmental impact. Subsequently 1 credit under Tra 05 Travel plan can be awarded.
- 5.4.6 Overall 7 of the available 7 credits have been allocated in this category, which as a result of weighting, contributes 6.89% to the total score.

5.5 Water

- 5.5.1 This category encourages sustainable water use in the operation of the building. Issues in this section focus on identifying means of reducing potable water consumption (internal and external) over the lifetime of the building and minimising losses through leakage.
- 5.5.2 The design team have committed to reduce the consumption of potable water for sanitary use through the use of highly water efficient components, fixtures and fittings. These measures will deliver at least a 40% improvement over baseline building water consumption. At the detailed design stage the buildings actual water consumption will be calculated using the BREEAM Water calculator tool. This will help minimise the developments impact on precious water resources and provide resilience to potential future climate change. As a result of this commitment the scheme is eligible for 3 credits under Wat 01 Water consumption.
- 5.5.3 To ensure water consumption can be monitored and managed, water meters shall be installed. Further, water-consuming plant or building areas, consuming 10% or more of the building's total water demand, will either be fitted with easily accessible sub-meters or have water monitoring equipment integral to the plant or area. Therefore 1 credit can be awarded for Wat 02 Water monitoring.
- 5.5.4 In order to minimise the impact of undetected water leaks on potable water consumption, the scheme will feature water leak detection systems. The system will be capable of detecting a major water leak on the mains water supply within the building and between the building and the utilities water meter. The design will also feature flow control devices that regulate the supply of water to each WC area/facility according to



demand, and therefore minimise water leaks and wastage from sanitary fittings. As a result the scheme is eligible 2 credits for Wat 03 - Water leak detection.

5.5.5 Overall 6 of the available 8 credits have been allocated in this category, which as a result of weighting, contributes 4.45% to the total score.

5.6 Materials

- 5.6.1 This category encourages steps taken to reduce the impact of construction materials through design, construction, maintenance and repair. Issues in this section focus on the procurement of materials that are sourced in a responsible way and have a low embodied impact over their life including extraction, processing and manufacture and recycling.
- 5.6.2 The proposed development will specify high performance and low impact including embodied carbon, construction materials over the full life cycle of the building. The build-up of the main building elements, including; External walls, Windows, Roof, Upper floor slab, Internal walls, Floor finishes/coverings will be assessed on an elemental basis against the BRE Green Guide to Specification ³. With ratings from A+ to E, and areas (m²) inputted to the BREEAM Mat 01 calculator. The design team are targeting 'Very Good' performance and will develop the build-up at the detailed design stage, therefore 4 BREEAM credits are being targeted under Mat 01 Environmental impact of materials.
- 5.6.3 The design team will ensure that the principal contractor sources materials for the project in accordance with a documented sustainable procurement plan. Further it is proposed that the contractor ensures a score of ≥ 36% for Mat 03 Responsible sourcing of materials. In addition all timber and timber-based products used on the project will be legally harvested and traded timber. Therefore 2 credits are targeted for Mat 03 Responsible sourcing of materials, however this may be reviewed at the detailed design stage when more detailed information will be available.
- 5.6.4 The scheme will feature specification of insulation materials with a low embodied impact, this will involve assessment of all insulation for; External walls, Ground floors, Roofs and Building services against the BRE Green Guide to Specification. An Insulation Index will then be calculated using the BREEAM Mat 04 calculator, ensuring all insulation values are high performance, having a value of ≥ 2.5. Subsequently 1 credit under Mat 04 Insulation can be awarded.



³ <u>http://www.thegreenguide.org.uk/</u>

- 5.6.5 Building maintenance and replacement of materials, can have a significant environmental impact over a buildings lifetime. Therefore the design will ensure adequate protection for vulnerable parts of the building from damage, also protecting exposed parts of the building from material degradation. Therefore minimising the frequency of replacement and maximising materials optimisation. As such 1 credit under Mat 05 Designing for durability and resilience can be awarded.
- 5.6.6 The design team will identify opportunities to optimise the use of materials in building design, procurement, construction, maintenance and end of life. This may take the form of reports, drawings or building integrated model (BIM) calculations, meeting notes, construction program or responsibilities schedule, with the aim of encouraging material efficiency in order to minimise environmental impact of material use and waste. As a result of this commitment 1 credit under Mat 06 Material efficiency can be targeted.
- 5.6.7 Overall 9 of the available 13 credits have been allocated in this category, which as a result of weighting, contributes 9.56% to the total score under BREEAM Non Domestic Refurbishment.

5.7 Waste

- 5.7.1 This category encourages the sustainable management (and reuse where feasible) of construction, operational waste and waste through future maintenance and repairs associated with the building structure. By encouraging good design and construction practices, issues in this section aim to reduce the waste arising from the construction and operation of the building, encouraging its diversion from landfill. It includes recognition of measures to reduce future waste as a result of the need to alter the building in the light of future changes to climate.
- 5.7.2 At the construction stage, a compliant Site Waste Management Plan (SWMP) will be prepared in line with the requirements of BREEAM. This will involve undertaking a pre-refurbishment audit, including demolition materials. The scheme will also target a resource efficiency level, where the amount of waste generated per 100m2 (gross internal floor area) is <4.5m³ or <1.2 tonnes.
- 5.7.3 In addition the non-hazardous demolition waste generated by the dwellings refurbishment must meet or exceed the waste diversion from landfill benchmarks of 90% by volume or 95% by tonnage for Demolition and 85% by volume or 90% by tonnage for Refurbishment/fit-out. Subsequently the scheme will aim to achieve 5 credits under issue Was 01 Construction waste management



- 5.7.4 Provision of adequate and accessible storage for operational waste has been designed into the scheme, allowing one credit to be awarded under Was03 Operational waste.
- 5.7.5 In total, 6 of the available 12 credits have been allocated in this category, which as a result of weighting, contributes 5.51% to the total score.

5.8 Land use and Ecology

- 5.8.1 This category encourages sustainable land use, habitat protection and creation, and improvement of long term biodiversity for the building's site and surrounding land. Issues in this section relate to the reuse of brownfield sites or those of low ecological value, mitigation and enhancement of ecology and long term biodiversity management.
- 5.8.2 Given that the scheme involves largely the redevelopment of existing buildings, it is assumed that the land is of 'low ecological value'. Furthermore if any existing features of ecological value within and surrounding the construction zone and site boundary area are identified, these will be adequately protected from damage during clearance, site preparation and construction activities. Subsequently 1 credit for LE 02 Protection of ecological features can be awarded.
- 5.8.3 As per the BDR assessment, the recommendations of the Ecologist's report will be implemented allowing one credit under Le04 Ecological Enhancement to be awarded.
- 5.8.4 In total, 2 of the available 2 credits have been allocated in this category, which as a result of weighting, contributes 3.69% to the total score.

5.9 Pollution

- 5.9.1 This category addresses the prevention and control of pollution and surface water run-off associated with the building's location and use. Issues in this section aim to reduce the buildings impact on surrounding communities and environments arising from light-pollution, noise, flooding and emissions to air, land and water.
- 5.9.2 The development will feature cooling and heating areas in the form of Air Source Heat Pump (ASHP) units. To reduce the level of greenhouse gas emissions arising from the leakage of refrigerants from these building systems, the refrigerants specified will have Direct Effect Life Cycle CO₂ equivalent emissions (DELC CO₂e) of ≤ 1000 kgCO₂e/kW cooling/heating capacity. In addition all systems will comply with the requirements of BS EN 378:2008. As a result 1 BREEAM credit can be awarded for Pol 01 Impact of refrigerants.



- 5.9.3 A review of Environment Agency information for the site has determined that the development is located in a zone defined as having a low annual probability of flooding and 2 credits have been allocated under issue Pol 03 – Flood risk management and reducing surface water runoff.
- 5.9.4 With respect to surface water runoff, the construction of the proposed development will take place within the existing envelope of the building and therefore, will not lead to an increase of impermeable surfaces and will have a neutral impact upon surface water runoff allowing the first surface water run off credit being awarded under Pol 03 Flood risk management and reducing surface water run-off.
- 5.9.5 To ensure that external lighting is concentrated in the appropriate areas and that upward lighting is minimised, the design team will ensure that external lighting is specified in compliance ILP Guidance notes for the reduction of obtrusive light, 2011. Further all external lighting (except for safety and security lighting) will feature a daylight responsive sensor and automatically switching between 23:00 and 07:00, thereby reducing unnecessary light pollution, energy consumption and nuisance to neighbouring properties. As such 1 credit can be awarded for Pol 04 Reduction of night time light pollution.
- 5.9.6 Overall 6 of the available 12 credits have been allocated in this category, which as a result of weighting, contributes 3.93% to the total score.



6.0 CONCLUSIONS

- 6.0.1 This report demonstrates that the proposed development at 61-65 Charlotte Street in the London Borough of Camden can achieve the required BREEAM ratings of 'Excellent' for the residential units and 'Very Good' for the Office space, implementing sustainability measures where appropriate and practical.
- 6.0.2 Given the constraints of the site, it has been shown that is not feasible to achieve BREEAM 'Excellent, for the office space, an aspiration set out in CPG3, however the applicant has demonstrated their commitment to sustainable development by targeting all mandatory requirements to achieve Excellent and maximising credits wherever possible.
- 6.0.3 The Sustainability Statement focuses on the implementation of sustainable systems for energy, water, waste management, pollution, and construction management. Much attention has been given to reducing the environmental impact throughout the lifetime of the building, during construction, refurbishment and occupation of the dwelling. Sustainability measures are proposed which go beyond the works necessary for the development.
- 6.0.4 Improvements in fabric energy efficiency, services efficiency and low carbon technologies will be specified to ensure carbon emissions are minimised and mandatory standards are met for both the BREEAM assessments. Energy Strategy calculations have been completed to set the performance standards for the dwellings and more detailed calculations will be performed at the detailed design stage in order to demonstrate this energy performance improvement.
- 6.0.5 Water consumption can be substantially reduced through the specification of water efficient fixtures and fittings, including low flow rate showers and taps and dual flush toilets, in order to achieve the minimum requirements under water for BREEAM 'Excellent'.
- 6.0.6 New environmentally friendly and responsibly sourced building and insulation materials will be specified to the greatest extent possible.
- 6.0.7 Waste and recycling facilities will be provided and the reuse and disposal of construction waste will be guided by a Site Waste Management Plan. In addition, the site will be registered with the Considerate Constructors Scheme and will monitor and report on construction site impacts.


- 6.0.8 The BREEAM Pre-Assessments attached as Appendix B and C demonstrate that a rating of Excellent can be achieved in the seven converted dwellings with a score of 71.05% under BDR; and Very Good can be achieved in the BNDR office areas with a score of 64.38% despite existing site constraints.
- 6.0.9 It should be noted that the credits allocated in the pre-assessments are subject to change at the detailed design stage and during the construction phase. The BDR assessment is close to the boundary for Excellent so there is very little flexibility in the score. The strategy also ensures the London Borough of Camden targets, as outlined in Appendix A, are met where feasible.
- 6.0.10 In conclusion, this report demonstrates compliance with London Borough of Camden Planning Policy DP22 and that the proposed development has carefully considered the site's potential environmental impacts and details how those impacts will be managed and mitigated.



APPENDIX A: POLICY SUMMARY

National Policy

National Planning Policy Framework, March 2012

The National Planning Policy Framework (NPPF) was published in March 2012. It sets out the Government's planning policies for England and how these policies are expected to be applied. The policies in the document, taken as a whole, constitute the Government's view of what sustainable development in England means in practice for the planning system.

Paragraph 14 of the NPPF states that:

At the heart of the National Planning Policy Framework is a **presumption in favour of sustainable development**, which should be seen as a golden thread running through both plan-making and decision-taking.

For decision-taking this means:

• approving development proposals that accord with the development plan without delay

The NPPF outlines a set of core land-use planning principles that should underpin plan-making and decision-taking, three of which are particularly relevant to this report. Under paragraph 17, these principles are that planning should:

- support 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 encourage the use of renewable resources (for example, by the development of renewable energy);
- contribute to conserving and enhancing the natural environment and reducing pollution. Allocations of land for development should prefer land of lesser environmental value, where consistent with other policies in this Framework; and
- encourage the effective use of land by reusing land that has been previously developed (brownfield land), provided that it is not of high environmental value.

Design is addressed in section 7 of the NPPF, and paragraph 56 states:

The Government attaches great importance to the design of the built environment. Good design is a key aspect of sustainable



development, is indivisible from good planning, and should contribute positively to making places better for people.

Meeting the challenge of climate change is addressed in section 10 of the NPPF. In here, paragraph 93 notes that planning plays a key role in helping shape places to secure radical reductions in greenhouse gas emissions, minimising vulnerability and providing resilience to the impacts of climate change and supporting the delivery of renewable and low carbon energy and associated infrastructure. This is central to the economic, social and environmental dimensions of sustainable development.

Further to the above, paragraphs 95 and 96 state:

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 development to:

- comply with adopted Local Plan policies on local requirements for decentralised energy supply unless it can be demonstrated by the applicant, having regard to the type of development involved and its design, that this is not feasible or viable; and
- take account of landform, layout, building orientation, massing and landscaping to minimise energy consumption.

Conserving and enhancing the natural environment is addressed in section 11 of the NPPF. In this section, and excerpts from paragraph 109 state that the planning system should contribute to and enhance the natural and local environment by:

 minimising impacts on biodiversity and providing net gains in biodiversity where possible, contributing to the Government's commitment to halt the overall decline in biodiversity, including by establishing coherent ecological networks that are more resilient to current and future pressures; and preventing both new and existing development from contributing to or being put at unacceptable risk from, or being adversely affected by unacceptable levels of soil, air, water or noise pollution or land instability.

Paragraph 118 notes that when determining planning applications, local planning authorities should aim to conserve and enhance biodiversity by encouraging opportunities to incorporate biodiversity in and around developments.

Noise is addressed under paragraph 123 which notes that planning policies and decisions should aim to:

- avoid noise from giving rise to significant adverse impacts on health and quality of life as a result of new development; and
- mitigate and reduce to a minimum other adverse impacts on health and quality of life arising from noise from new development, including through the use of conditions.

Additionally, paragraph 125 notes that by encouraging good design, planning policies and decisions should limit the impact of light pollution from artificial light on local amenity.

Regional Policy

The London Plan: Spatial Development Strategy for Greater London, July 2011

The London Plan was published in July 2011 and is the overall strategic plan for London, setting out an integrated economic, environmental, transport and social framework for the development of London until 2031. The policies relevant to this report are found in Chapter 5 (and to a lesser extent in Chapter 7) of the London Plan.

Policy 5.2: Minimising Carbon Dioxide Emissions

Policy 5.2 addresses carbon dioxide emission reductions and energy assessment requirements. The policy states:

Planning decisions

A. Development proposals should make the fullest contribution to minimising carbon dioxide emissions in accordance with the following energy hierarchy:



- 1. Be lean: use less energy
- 2. Be clean: supply energy efficiently
- 3. Be green: use renewable energy
- B. The Mayor will work with boroughs and developers to ensure that major developments meet the following targets for carbon dioxide emissions reduction in buildings. These targets are expressed as minimum improvements over the Target Emission Rate (TER) outlined in the national Building Regulations leading to zero carbon residential buildings from 2016 and zero carbon non-domestic buildings from 2019.

Residential buildings:

Year Improvement on 2010 Building Regulations

2010-2013 25 per cent (Code for Sustainable Homes level4) 2013-2016 40 per cent2016-2031 Zero carbon

2010 2001 2010 00100

Non-domestic buildings:

Year Improvement on 2010 Building Regulations

2010-2013	25 per cent
2013-2016	40 per cent
2016-2019	As per building regulations requirements
2019-2031	Zero carbon

- C. Major development proposals should include a detailed energy assessment to demonstrate how the targets for carbon dioxide emissions reduction outlined above are to be met within the framework of the energy hierarchy.
- D. As a minimum, energy assessments should include the following details:
 - a. calculation of the energy demand and carbon dioxide emissions covered by the Building Regulations and, separately, the energy demand and carbon dioxide emissions from any other part of the development, including plant or equipment, that are not covered by the Building Regulations at each stage of the energy hierarchy
 - b. proposals to reduce carbon dioxide emissions through the energy efficient design of the site, buildings and services
 - c. proposals to further reduce carbon dioxide emissions through the use of decentralised energy where feasible, such as district heating and cooling and combined heat and power (CHP)
 - d. proposals to further reduce carbon dioxide emissions through the use of on-site renewable energy technologies.
- E. The carbon dioxide reduction targets should be met on-site. Where it is clearly demonstrated that the specific targets cannot be fully achieved on-site, any shortfall may be provided off-site or through a cash in lieu contribution to the



relevant borough to be ring fenced to secure delivery of carbon dioxide savings elsewhere.

As outlined in the Sustainable Design and Construction Supplementary Planning Guidance (SPG) published in April 2014, from 6 April 2014, the Mayor will apply a 35 per cent carbon reduction target beyond Part L 2013 of the Building Regulations - this is deemed to be broadly equivalent to the 40 per cent target beyond Part L 2010 of the Building Regulations, as set out in London Plan Policy 5.2 for 2013-2016.

Policy 5.3: Sustainable Design and Construction

Policy 5.3 is the main policy within the London Plan which addresses sustainable design and construction and states:

Strategic

A. The highest standards of sustainable design and construction should be achieved in London to improve the environmental performance of new developments and to adapt to the effects of climate change over their lifetime.

Planning decisions

- B. Development proposals should demonstrate that sustainable design standards are integral to the proposal, including its construction and operation, and ensure that they are considered at the beginning of the design process.
- C. Major development proposals should meet the minimum standards outlined in the Mayor's supplementary planning guidance and this should be clearly demonstrated within a design and access statement. The standards include measures to achieve other policies in this Plan and the following sustainable design principles:
 - a. minimising carbon dioxide emissions across the site, including the building and services (such as heating and cooling systems)
 - b. avoiding internal overheating and contributing to the urban heat island effect
 - c. efficient use of natural resources (including water), including making the most of natural systems both within and around buildings
 - d. minimising pollution (including noise, air and urban runoff)
 - e. minimising the generation of waste and maximising reuse or recycling
 - f. avoiding impacts from natural hazards (including flooding)

- g. ensuring developments are comfortable and secure for users, including avoiding the creation of adverse local climatic conditions
- h. securing sustainable procurement of materials, using local supplies where feasible, and
- i. promoting and protecting biodiversity and green infrastructure.

The Mayor's supplementary planning guidance, referred to in part C. of Policy 5.3 above, is addressed further in this report below.

The London Plan contains a number of other policies relevant to this report, which are not outlined in full. These policies can be found in the list below, and reference should be made to the London Plan Chapter 5 (Climate Change) for further information:

- Policy 5.5: Decentralised Energy Networks
- Policy 5.6: Decentralised Energy in Development Proposals
- Policy 5.7: Renewable Energy
- Policy 5.8: Innovative Energy Technologies
- Policy 5.9: Overheating and Cooling
- Policy 5.10: Urban Greening
- Policy 5.11: Green Roofs and Development Site Environs
- Policy 5.12: Flood Risk Management
- Policy 5:13: Sustainable Drainage
- Policy 5.15: Water Use and Supplies

Sustainable Design and Construction Supplementary Planning Guidance, April 2014

The Mayor's Supplementary Planning Guidance (SPG) on Sustainable Design and Construction was published in May 2006, and later updated in April 2014, to provide additional information to support the implementation of the London Plan. Policy 5.3 of the current London Plan continues to refer to this SPG.

The SPG is based on three broad sustainable design and construction categories (Resource Management; Adapting to Climate Change and Greening the City; and Pollution Management - Land, Air, Noise, Light and Water) and contains both Mayor's Priority and Mayor's best practice standards for the proposed development within each section.



As encouraged in paragraph 1.4.11 of the SPG, this Sustainability Statement is structured around the sections of the SPG and notes how the proposed development addresses the Mayor's Priority and best practice standards.

Local Policy

The London Borough of Camden's Core Strategy sets out the key elements of the Council's planning vision and strategy for the borough. It is the central part of Local Development Framework (LDF) and was adopted in November 2010. The LDF is a group of documents setting out the borough's planning strategy and policies.

London Borough of Camden Core Strategy 2010-2025

The Core Strategy contributes to achieving the vision and objectives of Camden's Community Strategy and helps the Council's partners and other organisations deliver relevant parts of their programmes. It covers the physical aspects of location and land use but also addresses other factors that make places attractive, sustainable and successful, such as social and economic matters. It plays a key part in shaping the kind of place Camden will be in the future, balancing the needs of residents, businesses and future generations.

Within the Core Strategy there are specific policies relating to sustainability.

The Core Strategy sets out the Council's approach to managing Camden's growth so that it is sustainable, meets our needs for homes, jobs and services, and protects and enhances quality of life and the borough's many valued and high quality places. Section 3 focuses on delivering the key elements of Camden's strategy relating to:

- making Camden more sustainable and tackling climate change, in particular improving the environmental performance of buildings, providing decentralised energy and heating networks, and reducing and managing our water use;
- promoting a more attractive local environment through securing high quality places, conserving our heritage, providing parks and open spaces, and encouraging biodiversity;
- improving health and well-being;
- making Camden a safer place while retaining its vibrancy; and
- dealing with our waste and increasing recycling.



The implications of our actions on the environment are increasingly clear and action is needed at global, national and local levels. The Core Strategy has an important role in reducing Camden's environmental impact and achieving sustainable development – meeting our social, environmental and economic needs in ways that protect the environment and do not harm our ability to meet our needs in the future. A Sustainable Camden that adapts to a growing population is one of the elements in the vision in Camden's Community Strategy.

CS13 – Tackling climate change through promoting higher environmental standards

The Core Strategy Policy CS13 sets out the approach that developers should take when considering energy and carbon reductions for developments.

Reducing the effects of and adapting to climate change

The Council will require all development to take measures to minimise the effects of, and adapt to, climate change and encourage all development to meet the highest feasible environmental standards that are financially viable during construction and occupation by:

- a) ensuring patterns of land use that minimise the need to travel by car and help support local energy networks;
- b) promoting the efficient use of land and buildings;
- c) minimising carbon emissions from the redevelopment, construction and occupation of buildings by implementing, in order, all of the elements of the following energy hierarchy:
 - i. ensuring developments use less energy,
 - ii. making use of energy from efficient sources, such as the King's Cross, Gower Street, Bloomsbury and proposed Euston Road decentralized energy networks;
 - iii. generating renewable energy on-site; and
- d) ensuring buildings and spaces are designed to cope with, and minimise the effects of, climate change.

The Council will have regard to the cost of installing measures to tackle climate change as well as the cumulative future costs of delaying reductions in carbon dioxide emissions

Local energy generation

The Council will promote local energy generation and networks by:

e) working with our partners and developers to implement local energy networks in the parts of Camden most likely to support them,



 f) protecting existing local energy networks where possible (e.g. at Gower Street and Bloomsbury) and safeguarding potential network routes (e.g. Euston Road).

Water and surface water flooding

We will make Camden a water efficient borough and minimise the potential for surface water flooding by:

- g) protecting our existing drinking water and foul water infrastructure, including Barrow Hill Reservoir, Hampstead Heath Reservoir, Highgate Reservoir and Kidderpore Reservoir;
- h) making sure development incorporates efficient water and foul water infrastructure;
- requiring development to avoid harm to the water environment, water quality or drainage systems and prevents or mitigates local surface water and down-stream flooding, especially in areas up-hill from, and in, areas known to be at risk from surface water flooding such as South and West Hampstead, Gospel Oak and King's Cross.

Camden's carbon reduction measures

The Council will take a lead in tackling climate change by:

- j) taking measures to reduce its own carbon emissions;
- k) trialing new energy efficient technologies, where feasible; and
- I) raising awareness on mitigation and adaptation measures.

London Borough of Camden Development Policies 2010-2025

The Core strategy has informed the Council's Development Polices. Section 3 of this particular document sets out a number of policies to promote sustainability and tackle climate change.

The objectives of Section 3 are enforced through policy DP22 Promoting sustainable design and construction and DP23 Water.

Policy DP22 - Promoting sustainable design and construction

The Council will require development to incorporate sustainable design and construction measures. Schemes must:

- a) demonstrate how sustainable development principles, including the relevant measures set out in paragraph 22.5, have been incorporated into the design and proposed implementation; and
- b) incorporate green or brown roofs and green walls wherever suitable.

The Council will promote and measure sustainable design and construction by:



- c) expecting new build housing to meet Code for Sustainable Homes Level 3 by 2010 and Code Level 4 by 2013 and encouraging Code Level 6 (zero carbon) by 2016.
- d) expecting developments (except new build) of 500sqm of residential floorspace or above or 5 or more dwellings to achieve 'excellent' in EcoHomes assessments from 2013 and at least 'very good' prior to 2013;
- e) expecting non-domestic developments of 500sqm of floorspace or above to achieve 'very good' in BREEAM assessments, with the aim of increasing the target to a rating of at least 'excellent' in 2016, if feasible, and zero carbon from 2019, in line with the government's ambitions.

The Council will require development to be resilient to climate change by ensuring schemes include appropriate climate change adaptation measures, such as:

- f) summer shading and planting;
- g) limiting run-off;
- h) reducing water consumption;
- i) reducing air pollution; and
- j) not locating vulnerable uses in basements in flood-prone areas.

Policy DP23 - Water

The Council will require developments to reduce their water consumption, the pressure on the combined sewer network and the risk of flooding by:

- a) incorporating water efficient features and equipment and capturing, retaining and re-using surface water and grey water on-site;
- b) limiting the amount and rate of run-off and waste water entering the combined storm water and sewer network through the methods outlined in part a) and other sustainable urban drainage methods to reduce the risk of flooding;
- c) reducing the pressure placed on the combined storm water and sewer network from foul water and surface water run-off and ensuring developments in the areas identified by the North London Strategic Flood Risk Assessment and shown on Map 2 as being at risk of surface water flooding are designed to cope with the potential flooding;
- ensuring that developments are assessed for upstream and downstream groundwater flood risks in areas where historic underground streams are known to have been present; and



e) encouraging the provision of attractive and efficient water features.

London Borough of Camden Planning Guidance Sustainability (CPG3)

The Core Strategy is supported by Supplementary Planning Documents (SPDs) which play an important role in planning decisions. SPDs provide detailed guidance on how planning strategy and policies will be implemented for specific topics, areas and sites.

CPG3 contains advice and guidance for developers on ways to achieve carbon reductions and more sustainable developments. It also highlights the Council's requirements and guidelines which support the relevant Local LDF policies, including DP22 as noted above.

Section 9 covers sustainability assessment tools, with BREEAM Domestic Refurbishment (formerly EcoHomes) and Code for Sustainable Homes being of particular relevance to this development (see section 3.4 below). The key message of the document is that new build dwellings will have to be designed in line with the Code for Sustainable Homes and the creation of 5 or more dwellings from an existing building will need to be designed in line with EcoHomes.

Developers are strongly encouraged to meet the following standards in accordance with Development Policy DP22 - Promoting sustainable design and construction:

Time period	Minimum rating (BDR/BREEAM)	Minimum standard for categories - % of un-weighted credits – (BDR/BREEAM)
2010-2012	Very Good	Energy - 60%
2013-2015	Excellent	Water – 60% Materials – 40%



APPENDIX B: BREEAM DOMESTIC REFURBISHMENT PRE-ASSESSMENT



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Man 03	Construction Site Impacts			
	No. of BREEAM credits available 1		Available contribution to overall score 1.0	9%
N	o. of BREEAM innovation credits 0	Minimum Standards applicable N	0	
ssessmen	t Criteria			Indicative Credit
/here evic	lence demonstrate that site impacts will be monito	red, as detailed below:		1
			One Credit	
	Large Scale	Where there is evidence to de	emonstrate that 2 or more of the sections in Checklist A-4 are completed	
	Small Scale	Where there is evidence to de	emonstrate that 2 or more of the sections in Checklist A-5 are completed	
		Sections of Checklist		
	Large Scale - C	hecklist A-4	Small Scale - Checklist A-5	
	Monitor, report and set targets for CO2 produc	tion of energy use arising from site activities	Set objectives for reducing CO2 production from energy use arising from site activities	
	Monitor, report and set targets for water	consumption arising from site activities		
			 Set objectives for reducing water use arising from site activities 	
	A main contractor with an env	ironmental materials policy	Main contractor environmental materials statement	
	A main contractor that operates an Er	nvironmental Management System		
	80% of site timber is reclaimed, r	e-used or responsibly sourced	80% of site timber is reclaimed, re-used or responsibly sourced	
Comments	Same definition of small and large scale as in Ma	n 02		

Map 04 Security		
No. of BREEAM credits available 2	Available contribution to overall score: 2.1	8%
No. of BREEAM innovation credits 0	Minimum Standards applicable: N	0
Assessment Criteria		Indicative Credits
where the following requirements will be met.		۷
One Credit	External doors and accessible windows meet minimum standards and appropriately certified	
		ł
	Bringinles and guidance of Secured by Design Section 2 are complied with	
Secured by design	A suitably qualified security consultant is consulted at the design stage and their recommendations are	
	incorporated into the refurbishment	
		ł
Comments		
comments		
Man 05 Protection and Enhancement of Ecological Featur	es Available contribution to overall score: 1.0	9%
No. of BREEAM innovation credits	Minimum Standards applicable: N	0
Assessment Criteria		Indicative Credits
Where the following requirements will be met:		1
	Site survey carried out to determine presence of ecological features	
One Credit	Statutory Nature Conservation Organisation notified of protected species	
Protecting Ecological Features	Statutory Nature Conservation organisation notified of protected species	
	Features of ecological value protected during refurbishment works	
		Indicative Innovation
	A suitably gualified ecologist recommends features to enhance ecology of the site	Credits Achieved
Exemplary Credit		1
Ecological enhancement	adopts all general ecological recommendations	
Comments		
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	0 Indicative Credits
No. of BREEAM innovation credits2Assessment CriteriaWhere the following requirements will be met:	Minimum Standards applicable N	o Indicative Credits 2
No. of BREEAM innovation credits 2 Assessment Criteria Where the following requirements will be met:	Minimum Standards applicable N Where all of the project team are involved in the project decision making	o Indicative Credits 2
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HEALTH & WELLBEING	Section Weighting: 17% Indicative Section Score	11.33%
Hea 01 Daylighting		
No. of BREEAM credits available 2	Available contribution to overall score 2.8	3%
No. of BREEAM innovation credits 0	Minimum Standards applicable N	0 Indicative Credits
Where the refurbishment results in a neutral impact on daylig	hting or where minimum daylighting standards are met, up to two credits may be awarded	
as follows:		
For Existing Dwellings and Change of Use Projects		1
First Credit	The refurbishment results in a neutral impact on the dwellings daylighting levels in the kitchen, living	
Maintaining Good Daylighting	room, dining room and study	
Where the property is being extended		_
	New spaces achieve minimum daylighting levels	
First Credit	The extension does not significantly reduce daylighting levels in the kitchen, living room, dining room or	
Maintaining Good Daylighting	study of neighbouring properties	
For All Properties		1
Second Credit		
Minimum Daylighting	The dwelling achieves minimum daylighting levels in the kitchen, living room, dining room and study	
		J
Comments		
Hea 02 Sound Insulation	Available contribution to overall coord	70/
	Available contribution to overall score 5.0	178
No. of BREEAM innovation credits 0	Minimum Standards applicable N	0
No. of BREEAM innovation credits 0 Assessment Criteria	Minimum Standards applicable N	o Indicative Credits
No. of BREEAM innovation credits 0 Assessment Criteria To ensure the provision of acceptable sound insulation standa	rds and so minimise the likelihood of noise complaints.	o Indicative Credits 3
No. of BREEAM innovation credits 0 Assessment Criteria 0 To ensure the provision of acceptable sound insulation standa Properties where sound testing has been carried out:	rds and so minimise the likelihood of noise complaints.	o Indicative Credits 3
No. of BREEAM innovation credits 0 Assessment Criteria To ensure the provision of acceptable sound insulation standa Properties where sound testing has been carried out: Up to Four Credits	Minimum Standards applicable N rds and so minimise the likelihood of noise complaints. Image: Complaints in the improvement over building regulations. See table in additional Four credits awarded according to the improvement over building regulations. See table in additional	o Indicative Credits 3
No. of BREEAM innovation credits 0 Assessment Criteria To ensure the provision of acceptable sound insulation standa Properties where sound testing has been carried out: Up to Four Credits	Minimum Standards applicable N rds and so minimise the likelihood of noise complaints. Image: Complexity of the complaints information in Technical Manual Image: Complexity of the complexity	o Indicative Credits 3
No. of BREEAM innovation credits 0 Assessment Criteria To ensure the provision of acceptable sound insulation standa Properties where sound testing has been carried out: Up to Four Credits Properties where sound testing is not feasible and not require	Minimum Standards applicable N rds and so minimise the likelihood of noise complaints. Image: Complexity of the improvement over building regulations. See table in additional information in Technical Manual ed by the appointed Building Control body	o Indicative Credits 3
No. of BREEAM innovation credits 0 Assessment Criteria To ensure the provision of acceptable sound insulation standa Properties where sound testing has been carried out: Up to Four Credits Properties where sound testing is not feasible and not require	Minimum Standards applicable N rds and so minimise the likelihood of noise complaints. Image: Complexity of the improvement over building regulations. See table in additional information in Technical Manual ed by the appointed Building Control body Where existing separating walls and floors are designed to meet the requirements of Building Regulations	o Indicative Credits 3
No. of BREEAM innovation credits 0 Assessment Criteria To ensure the provision of acceptable sound insulation standa Properties where sound testing has been carried out: Up to Four Credits Properties where sound testing is not feasible and not requir Two Credits	Minimum Standards applicable N rds and so minimise the likelihood of noise complaints. Image: Complexity of the improvement over building regulations. See table in additional information in Technical Manual Image: Complexity of the improvement over building regulations. See table in additional information in Technical Manual ed by the appointed Building Control body Image: Complexity of Building Regulations with compliant construction details	o Indicative Credits 3
No. of BREEAM innovation credits 0 Assessment Criteria To ensure the provision of acceptable sound insulation standa Properties where sound testing has been carried out: Up to Four Credits Properties where sound testing is not feasible and not requir Two Credits	Minimum Standards applicable N rds and so minimise the likelihood of noise complaints. Image: Complexity of the likelihood of noise complexity of the likelihood of noise complaints. Image: Complexity of the likelihood of noise complaints. Image: Complexity of the likelihood of noise complexity of the likelihood of noi	o Indicative Credits 3
No. of BREEAM innovation credits 0 Assessment Criteria To ensure the provision of acceptable sound insulation standa Properties where sound testing has been carried out: Up to Four Credits Properties where sound testing is not feasible and not requir Two Credits	Minimum Standards applicable N rds and so minimise the likelihood of noise complaints. Image: Complaints in the improvement over building regulations. See table in additional information in Technical Manual ed by the appointed Building Control body 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	o Indicative Credits 3
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No. of BREEAM innovation credits 0 Assessment Criteria To ensure the provision of acceptable sound insulation standa Properties where sound testing has been carried out: Up to Four Credits Properties where sound testing is not feasible and not requir Two Credits Up to Four Credits Up to Four Credits Historic Buildings Up to Four Credits	Minimum Standards applicable N rds and so minimise the likelihood of noise complaints. Image: Complaints of the improvement over building regulations. See table in additional information in Technical Manual ed by the appointed Building Control body 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 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	o Indicative Credits
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Up to Four Credits		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 propertywith separating walls or floors only between non habitable rooms OR Testing not required by building control body	
Detached Properties			
Four Cred	ts floors only between re	By Default	
	floors only between no	in habitable rooms OR Testing hot required by building control body	
Properties with separating walls of Four Cred	ts	By Default	
Properties with separating walls of Four Cred	ts	By Default	
Properties with separating walls of Four Cred	ts	By Default	
a 03 Volatile Organic Compounds No. of BREEAM credits available	ts 1	By Default Available contribution to overall score 1.42 Minimum Standards applicable	2%
a 03 Volatile Organic Compounds No. of BREEAM credits available No. of BREEAM innovation credits	ts 1 0	By Default By Default Interview of the second secon	!%)
Properties with separating walls of Four Cred	ts 1 0 e use of VOCs with new	By Default By Default Available contribution to overall score 1.42 Minimum Standards applicable No products meeting the following requirements:	?% > Indicative Crec 0
a 03 Volatile Organic Compounds No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria Where the refurbishment avoids the	ts 1 0 e use of VOCs with new	By Default Available contribution to overall score Minimum Standards applicable No products meeting the following requirements: Where all decorative paints and varnishes used in the refurbishment have met the requirement listed in table 5.4 in the Technical Manual	2% > Indicative Cred 0
Properties with separating walls of Four Cred meets a 03 Volatile Organic Compounds No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria Where the refurbishment avoids the One Cred Avoiding the use	ts 1 0 e use of VOCs with new it of VOCs	By Default By Default Available contribution to overall score 1.42 Minimum Standards applicable No products meeting the following requirements: Image: Colspan="2">Image: Colspan="2" products meeting the following requirements: Image: Colspan="2"	2% D Indicative Cred 0

No. of BREAM incredits valiable Nominum Standards applicable No No. of SREAM incredits available 0	No. of BREEAM innovation credits nent Criteria an access statement has been carried out usir	1	n n			
Prest Citrials Indicative Credits an access statement has been carried out using Checklist A.8 of the Technical Manual to optimise the accessibility of the home as follows: 1 One Credit Section 2 Mommun Accessibility Completed with Evidence Completed with Evidence Advanced Accessibility Completed with Evidence Completed with Evidence Indicative Investigation Dre Credit Where an access expert suitably qualified member of the design team has completed sections 1, 2 and 3 of Checklist A.8, Indicative Investigation No. of BREEAM innovation credits 0 Minimum Standards applicable Yes No. of BREEAM innovation credits 0 Minimum Standards applicable Yes Venet the dwelling meets the following ventilation requirements: 2 Aminimum Ventilation is provided in all wet rooms, compliant with section 7, Building Regulations Approved Document Part F, 2010. 2 Minimum Ventilation Requirements Aminimum level of background ventilation is provided in all wet rooms, compliant with section 7, Building Regulations Approved Document Part F, 2010. 1 Minimum Ventilation Requirements Ventilation is provided in all wet rooms, compliant with section 7, Building Regulations Approved Document Part F, 2010. 1 Minimum Ventilation Requirements Ventilation is provided in all wet rooms, scompliant wi	ment Criteria an access statement has been carried out usi		Minimum Standards applicable			
an access statement has been carried out using Checklist A-8 of the Technical Manual to optimise the accessibility of the home stollows:	an access statement has been carried out usin				Indica	tive Credits
Checklist A-5 of the Technical Manual Section 1 One Credit Advanced Accessibility Completed with Evidence Indicative Innovation (Completed with Evidence) Exemplary Performance Completed with Evidence Completed with Evidence Indicative Innovation (Completed with Evidence) One Credit Where an access expert suitably qualified member of the design team has completed sections 1, 2 and 3 of Checklist A-8, access statement template with evidence provided of the messures implemented in the returbishment Indicative Innovation (Please Select) No. of BREAM (redits svaliable No. of BREAM innovation credits 2 Available contribution to overall score Minimum Standards applicable 2.83% Where the dwelling meets the following ventilation requirements: 4 7 1 1 Where the dwelling meets the following ventilation requirements: 4 1 2 1 Minimum Ventilation Requirements 4 4 1 2 1 2 Minimum Ventilation Requirements 0 4 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		ng Checklist A-8 of the	Technical Manual to optimise the accessibility of the home as	s follows:		1
One Credit Maintum Accessibility Section 1 Section 2 Two Credits Advanced Accessibility Completed with Evidence Completed with Evidence Indicative Innovation Credits Accessibility Cone Credit Where an access expert suitably qualified member of the design team has completed sections 1, 2 and 3 of Checklist A.B. access statement template with evidence provided of the messures implemented in the returbishment Indicative Innovation Credits Achieved Please Select No. of BREEAM credits available 2 Available contribution to overall score No. of BREEAM credits available 2.83% Versitiation No. of BREEAM credits available 2 Available contribution to overall score No. of BREEAM innovation requirements: Indicative Credits Vhere the dwelling meets the following ventilation requirements: 0 Available contribution to overall score Ventilation is provided (with trickle ventilations or other means of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant with section 7, Building Regulations. Approved Document Part F, 2010 A minimum level of extract ventilation is provided (with trickle ventilation and ventilation S, Building Regulations. Approved Document Part F, 2010. Advanced Requirements Ventilation is provided for the dwelling that meets the requirements of Section 5 of Building Regulations. Approved Document Part F, 2010. Advanced Requirements Ventilation is provided for the dwelling that meets the requirements of Section 5			Checklist A-8 of the Techr	hical Manual		
Under Cerk Completed with Evidence Minimum Accessibility Completed with Evidence Completed with Evidence Advanced Accessibility Completed with Evidence Completed with Evidence One Credit Where an access opert suitabily qualified member of the design team has completed sections 1, 2 and 3 of Checklist A-8, eccess statement template with evidence provided of the measures implemented in the refurbishment Indicative Innovation Credits A-R8, eccess statement template with evidence provided of the measures implemented in the refurbishment Obs Ventilation Available contribution to overall score 2.83% No. of BREEAM innovation credits 0 Minimum Standards applicable Yes No. of BREEAM innovation credits 0 Minimum Standards applicable Yes Where the dvelling meets the following ventilation requirements: 2 A minimum level of background ventilation is provided (with tricke ventilators or other means of ventilation for all habitable rooms, kitchen, utility rooms and bathrooms, compliant with section 7, Building Regulations Approved Document Part F, 2010 Minimum Ventilation Requirements A minimum level of purge ventilation is provided in all wet rooms, (eg. kitchen, utility and bath-rooms), compliant with section 7, Building Regulations Approved Document Part F, 2010. Minimum Ventilation Requirements A minimum level of purge ventilation is provided for t	One Credit		Section 1	Section 2		
No. of REEAM credits Completed with Evidence Completed with Evidence Dec Credit Where an access expert suitably qualified member of the design team has completed sections 1, 2 and 3 of Checklist A-8, access statement template with evidence provided of the measures implemented in the refurbishment Indicative innovation Credits A-8, access statement template with evidence provided of the measures implemented in the refurbishment 05 Ventilation Available contribution to overall score 2.83% 06 One Credit Ventilation credits Ventilation No. of BREEAM credits available 2 Available contribution to overall score 2.83% 05 Ventilation Ventilation credits Ventilation Vestore Credits Vestore Credits 06 Minimum Standards applicable Vestore Credits Vestore Credits Vestore Credits 2 0 One Credit A minimum level of background ventilation is provided (with trickle wentilators or other means of ventilation for all habitable rooms, kitchens, utility and bath-rooms), compliant with section 7, Building Regulations Approved Document Part F, 2010. A minimum level of purge ventilation is provided in all habitable rooms, and vert rooms, compliant with section 7, Building Regulations Approved Document Part F, 2010. A minimum level of purge ventilation is provided in all habitable rooms, compliant with section 7, Buil	One Credit		Completed with Evidence			
Advanced Accessibility Completed with Evidence Completed with Evidence Description Where an access expert suitably qualified member of the design team has completed sections 1, 2 and 3 of Checklist A 8, access statement template with evidence provided of the measures implemented in the refurbishment Indicative innovation Credits A 8, access statement template with evidence provided of the measures implemented in the refurbishment Prease Select Prease Select Prease Select ents 0 Or BREEAM readits available 2 No. of BREEAM readits available 2 Available contribution to overall score 2.83% No. of BREEAM innovation credits 0 Minimum Standards applicable Yes Where the dwelling meets the following ventilation requirements: 2 Indicative Credits 2 Where the dwelling meets the following ventilation requirements: 2 A minimum level of background ventilation is provided (with trickle ventilators or other means of ventilation for all habitable rooms, kitchens, utility rooms and bathrooms compliant with section 7, Building Regulations Approved Document Part F, 2010. Minimum Ventilation Requirements A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and bath-rooms), compliant with section 7, Building Regulations Approved Document Part F, 2010. A minimum level of extract ventilation is provided in	Two Credits					
Exemplary Performance Indicative Innovation One Credit Where an access expert suitably qualified member of the design team has completed sections 1, 2 and 3 of Checklist A-3, access statement template with evidence provided of the messures implemented in the refurbishment Indicative Innovation Credits Addited Please Select One Credit Where an access expert suitably qualified member of the design team has completed sections 1, 2 and 3 of Checklist A-3, access statement template with evidence provided of the messures implemented in the refurbishment Indicative Credits Please Select One Oreclit Available contribution to overall score 2.83% No. of BREEAM credits available 2 Minimum Standards applicable Yes Monore Oreclit Minimum fevel of background ventilation is provided (with trickle ventilators or other means of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant with section 7, Building Regulations Approved Document Part F, 2010 A minimum level of packground ventilation is provided in all wet rooms, compliant with section 7, Building Regulations Approved Document Part F, 2010 A minimum level of purge ventilation is provided in all habitable rooms, compliant with section 7, Building Regulations Approved Document Part F, 2010 A minimum level of purge ventilation is provided in all habitable rooms, compliant with section 7, Building Regulations Approved Document Part F, 2010 A minimum level of purge ventilation is provided in all habitable rooms, compliant with section 7, Building Regulations A	Advanced Accessibili	ty	Completed with Evidence	Completed with Evidence		
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Of Settlation Available contribution to overall score 2.83% No. of BREFAM innovation credits 0 Minimum Standards applicable Yes Indicative Credits 0 Minimum Standards applicable Yes Where the dwelling meets the following ventilation requirements: 2 Indicative Credits 2 A minimum level of background ventilation is provided (with trickle ventilators or other means of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant with 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 bath-rooms), compliant with section 7, 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. 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. A minimum level of purge ventilation is provided on 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 of Section 5 of Building Regulations Advanced Requirements Ventilation is provided for the dwelling that meets the requirements of Section 5 of Building Regulations Part E in full Where the	One Credit Where a access s	in access expert suita tatement template wi	ly qualified member of the design team has completed section hevidence provided of the measures implemented in the ref	ns 1, 2 and 3 of Checklist A-8, urbishment	Credit Plea	s Achieved Ise Select
So. of BREEAM innovation credits 2 Available 2.83% No. of BREEAM innovation credits 0 Minimum Standards applicable Yes Indicative Credits 0 Indicative Credits 2 Where the dwelling meets the following ventilation requirements: Indicative Credits 2 Where the dwelling meets the following ventilation requirements: 2 1 One Credit A minimum level of background ventilation is provided (with trickle ventilators or other means of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant with 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 bath-rooms), compliant with section 5, Building Regulations Approved Document Part F 2010. A minimum level of purge ventilation is provided in all wet rooms (e.g. kitchen, utility and bath-rooms), compliant with section 7, Building Regulations Approved Document Part F 2010. A minimum level of purge ventilation is provided in all habitable 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 manual Yentilation is provided for the dwelling that meets the requirements of Section 5 of Building Regulations Part F in full Where the building is a historic building and meets the requirements for Historic Buildings in compliance note 4 of the techni						
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No. of BREEAM innovation credits 0 Minimum Standards applicable Yes Indicative Credits Indicative Credits 2 Where the dwelling meets the following ventilation requirements: 2 2 One Credit A minimum level of background ventilation is provided (with trickle ventilators or other means of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant with 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 bath-rooms), compliant with section 7, 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. 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 manual Ventilation is provided for the dwelling that meets the requirements of Section 5 of Building Regulations Part F in full Where the building is a historic building and meets the requirements for Historic Buildings in compliance note 4 of the technical manual	No. of BREEAM credits available	2	Availabl	e contribution to overall score	2.83%	
Indicative Credits Where the dwelling meets the following ventilation requirements: 2 A minimum level of background ventilation is provided (with trickle ventilators or other means of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant with 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 bath-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. 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 manual Went the building is a historic building and meets the requirements for Historic Buildings in compliance note 4 of the technical manual	No. of BREEAM innovation credits	0	N	vinimum Standards applicable	Yes	
A minimum level of background ventilation is provided (with trickle ventilators or other means of ventilation) for all habitable rooms, kitchens, utility rooms and bathrooms compliant with section 7, Building Regulations Approved Document Part F, 2010 One Credit A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and bath-rooms), compliant with section 5, Building Regulations Approved Document Part F 2010. A minimum Ventilation Requirements A minimum level of purge ventilation is provided in all wet rooms (e.g. kitchen, utility and bath-rooms), compliant with section 7, 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 of Section 5 of Building Regulations Part F in full Mvanced Requirements Ventilation is provided for the dwelling that meets the requirements of Section 5 of Building Regulations Part F in full Where the building is a historic building and meets the requirements for Historic Buildings in compliance note 4 of the technical manual	Where the dwelling meets the following v	ventilation requireme	ts:			2
One Credit A minimum level of extract ventilation is provided in all wet rooms (e.g. kitchen, utility and bath-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 manual Two Credits Ventilation is provided for the dwelling that meets the requirements of Section 5 of Building Regulations Part F in full Where the building is a historic building and meets the requirements for Historic Buildings in compliance note 4 of the technical manual			A minimum level of background ventilation is provided ventilation) for all habitable rooms, kitchens, utility room Building Regulations Approved Do	(with trickle ventilators or other means is and bathrooms compliant with sectio cument Part F, 2010	of n 7,	
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 manual Ventilation is provided for the dwelling that meets the requirements of Section 5 of Building Regulations Part F in full Where the building is a historic building and meets the requirements for Historic Buildings in compliance note 4 of the technical manual	One Credit Minimum Ventilation Requi	rement s	A minimum level of extract ventilation is provided in all we compliant with section 5, Building Regulations .	t rooms (e.g. kitchen, utility and bath-rc Approved Document Part F 2010.	oms),	
It is an historic building and meets historic building requirements in CN4 of the technical manual Two Credits Advanced Requirements Where the building is a historic building and meets the requirements for Historic Buildings in compliance note 4 of the technical manual			A minimum level of purge ventilation is provided in all hab section 7, Building Regulations Approve	itable rooms and wet rooms, compliant d Document Part F, 2010.	ː with	
Two CreditsVentilation is provided for the dwelling that meets the requirements of Section 5 of Building Regulations Part F in fullAdvanced RequirementsWhere the building is a historic building and meets the requirements for Historic Buildings in compliance note 4 of the technical manual			It is an historic building and meets historic building req	uirements in CN4 of the technical manu	ıal	
Advanced Requirements Where the building is a historic building and meets the requirements for Historic Buildings in compliance note 4 of the technical manual	Two Credits		Ventilation is provided for the dwelling that meets the requered Part F in full	irements of Section 5 of Building Regul	ations	
	Advanced Requiremen	nts	Where the building is a historic building and meets the requnder note 4 of the technical	Jirements for Historic Buildings in comp I manual	liance	

Hea 06 Safety						
No. of BREEAM credits available	1		Available	contribution to overall score	1.42%	
No. of BREEAM innovation credits	0		Mi	nimum Standards applicable	Yes	
Assessment Criteria						Indicative Credits
Where a fire and carbon monoxide	(CO) detection and alarm sy	stem is specified as follows:				1
		Where a compliant fire detection	n and fire alarm system is prov	ided		
One Credit Fire and Carbon Monoxide (CO) Detection and Alarm Systems		Carbon Monoxide detector insta	Illed if dwelling is supplied witl	n mains gas or other fossil fuel		
		Mains supplied fire detection an	d alarm system if project invol	ves re-wiring*		
		Battery operated fire detection a	and alarm system if no re-wirin	g* is to take place		
* see CN9 in Hea 06 for the definition	on of re-wiring					
Comments						
conincitio						
ENERGY		Section Weighting: 43%		Indicative Secti	on Score 28	3.91%
Ene 01 Improvement in Energy Efficience	cy Rating		Ausilable		8.00%	
No. of BREEAM credits available	6	4		contribution to overall score	8.90%	
Association Critoria	U		IVII			Indicative Credits
Where the following targets are met for the imp	provement in Energy Efficie	ncy Rating achieved as a result of	refurhishment.			1
where the following targets are met for the imp		ement in FFR	Credits			±
	improve	≥ 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			
Comments						
	e					
Ene 02 Energy Efficiency Rating Post Rei	furbishment	1			E 0.20	-
No. of BREEAW credits available	4	4	Available	contribution to overall score	5.93%	
	Z		IVII	nimum standards applicable	res	Indicativo Crodito
Where the following Energy Efficiency Rating be	enchmarks will he met as a	result of refurbishment.				3 5
where the following Lifergy Liferency Rating be	Elementarias will be met as a	refurbishment	Cradits	Minimum requirements		5.5
		>50	0.5	'Pass' level FFR of 50		
		≥55	1	'Good' level EER of 58		
		≥60	1.5			
		≥65	2	'Very Good level' EER of 6	5	
		≥70	2.5	'Excellent' level EER of 70)	
		≥75	3			
		≥80	3.5	'Outstanding' level EER of 8	81	
		≥85	4			
						Indicative Innovation

	Exemplary	Credits	Credits Achieved
	≥90	1	Please Select
	≥100	2	
Comments			

No. of PDEEAM credits outlights	7			able contribution to overall score	10.38%
		-	Availa	Minimum Standards applicable	No.
NO. OF BREEAW INNOVAtion credits	U			winimum Standards applicable	Indicativo Crodits
More the following Primary Energy Deman	d hanchmarks will he met as	a result of refurbishment.			
where the following Filling y Lifergy Demain	Brimary Enorgy Domand B	a result of refurbishment.	Credits		
	Filliary Lifelgy Dellianu P		0.5		
		< 370	1		
		< 340	1.5		
		< 320	2		
		< 300	2.5		
		≤ 280	3		
		≤ 260	3.5		
		≤ 240	4		
		≤ 220	4.5		
		≤ 200	5		
		≤ 180	5.5		
		≤ 160	6		
		≤ 140	6.5		
		≤ 120	7		
comments					
No. of BREEAM innovation credits	0			Minimum Standards applicable	No
Assessment Criteria	-				Indicative Credits
Where the dwelling will meet the following	% contribution from renewal	oles and primary energy demand targe	ets as a result of refurbi	shment	
- 0	Ducalling	Drimory Frourse Domond	Percentage fro	m Renewables	r
	Dweiling Type	Primary Energy Demand	1 Credit	2 Credits	
	Detached		≥10%	≥20%	
	Semi-Detached	$< 250 \text{ kWh/m}^2/\text{vear}$	≥10%	≥20%	
	Bungalow		≥10%	≥20%	
	End of Terrace		≥10%	≥20%	
	Mid Terrace		≥10%	≥20%	
	Low Rise Flat	≤ 220 kWh/m²/vear	≥10%	≥20%	
	Mid Rise Flat		≥10%	≥15%	
	High Rise Flat		≥10%	≥15%	
Comments					
Ene 05 Energy Labelled White Goods					2.070/
No. of BREEAM credits available	2	-	Availa	able contribution to overall score	2.9/%
NO. OF BREEAM innovation credits	0			winimum Standards applicable	
Assessment Criteria	he provided as fallows				
where Energy Efficiency White goods are to	be provided as follows:				
First Credit	Appliance		Appliance provided		od
					eu
				EU Energy Efficiency Labelling So	cheme
Fuidada Fuadada	Fridaes Freezers and Fridae Freezers		Energy Saving Trust Recommended appliances specified		
Fridges, Freezers ar	id Fridge-Freezers	Energy Saving Trust Recommende	d appliances specified	Information Leaflet provided to all	dwellings
Fridges, Freezers ar	id Fridge-Freezers	Energy Saving Trust Recommende	d appliances specified	Information Leaflet provided to all	dwellings
Fridges, Freezers ar	id Fridge-Freezers	Energy Saving Trust Recommende	d appliances specified	Information Leaflet provided to all	dwellings
Fridges, Freezers ar Second Credit	and Fridge-Freezers	Energy Saving Trust Recommende	d appliances specified	Information Leaflet provided to all	dwellings
Fridges, Freezers an Second Credit Applia	ance	Energy Saving Trust Recommende Appliance provi	d appliances specified	Information Leaflet provided to all Appliance not to be provide	dwellings ed

	Washing Machines and	Dishwashers	Energy Saving Trust Recommend	ed appliances specified	Second credit r	not achieved		
	Washer-Dryers and Tumble Dryers		Appliances specified with B Rating under EU EnergyEU Energy EfficiencyEfficiency Labelling SchemeInformation Leaflet pro		EU Energy Efficiency Information Leaflet prov	Labelling Scheme vided to all dwellings		
Comments	S							
Ene 06	Drying Space							
	No. of BREEAM credits available	1		Availa	able contribution to overa	ll score 1.4	8%	
N	o. of BREEAM innovation credits	0			Minimum Standards app	olicable N	0	
Assessmen	nt Criteria					<u> </u>	Indicative	e Credits
Where ade	equate, secure internal or external space	ce with posts and footings	s or fixings is provided with the follo	owing: I			1	-
			1 Credit	Drying line red	nuirod			
			1-2	Drying inte rec 4m+	quireu			
			3+	6m+				
Comments	5							
Ene 07	Lighting							-
	No. of BREEAM credits available	2		Availa	able contribution to overa	Il score 2.9	7%	
N	o. of BREEAM innovation credits	0			Minimum Standards app	licable N	0	
Assessmen	nt Criteria						Indicative	e Credits
Where ene	ergy efficient internal and external light	ting is provided as follows					2	
	Exte	rnal Lighting - 1 Credit						
	En en			it watt and Frances Ffficia				
	Ener	gy Efficient Space Lighting	g of more than 45 lumens per circu	it watt and Energy Efficie	ent Security Lighting OR			
	Whe	ere energy enicient space						
	Inte	rnal Lighting - 1 Credit						
	Max	imum average wattage ac	cross the total floor area of the dwe	elling of 9 watts/m2				
Comments	5							
1								

Ene 08 Display Energy Devices						
No. of BREEAM credits available	2		Available contr	ibution to overall score	2.97%	
No. of BREEAM innovation credits	1		Minimu	m Standards applicable	No	
Assessment Criteria Where consumption data is displayed to oc	cupants by a compliant energy	display device				2
		as data displayed	Primary Heatin	g Fuel		
	Electricity usa	ge data displayed	Electricity	Other		
	Electricity usa Primary Heating Fu	ge data displayed	2 credits awarded	1 credit awarded		
	Electricity & Primary He	eating Fuel usage displayed	N/A	2 credits awarded		
	Exemplary Credits					
	One	e credit	Where the first two cred	its are achieved	Indica	tive Innovation
	Recording co	onsumption data	recording consumption	otion data		1
Comments						
Ene 09 Cycle Storage						
No. of BREEAM credits available	2		Available cont	ibution to overall score	2.97%	
No. of BREEAM innovation credits	0		Minimu	m Standards applicable	No	estive Credite
Assessment Criteria Where individual or communal compliant c	vcle storage is provided as follo	ws:				0
	Dwelling Size	One Credit	Two Credits			
	Studios/ 1 bedroom	1 per two dwellings	1 per dwelling			
	2-3 bedrooms 4 bedrooms	1 per dwelling 2 per dwelling	2 per dwelling 4 per dwelling			
Comments						
Fne 10 Home Office						
No. of BREEAM credits available	1		Available contr	ibution to overall score	1.48%	
No. of BREEAM innovation credits	0		Minimu	m Standards applicable	No	
Assessment Criteria Where sufficient space and services will be	provided to allow occupants to	set up a home office in a suitable	e room with adequate ventilation			tative Credits
Comments						<u>+</u>
		Section Weighting: 11%		Indicativo Soct	ion Scoro 8 80%	
WATER		Section Weighting: 11%		Indicative Sect	1011 Score 8.80%	
Wat 01 Internal Water Use	2		Ausilable contr		6.60%	
No. of BREEAM innovation credits	<u> </u>		Available conti Minimu	m Standards applicable	Yes	
Assessment Criteria				•••••	Indi	cative Credits
Where the dwellings water consumption m	eets the following consumption	benchmarks, or where terminal	fittings meet the following water co	onsumption standards:		2
Calculated Water Consumption	Equivalent termi	nal fitting standards	Minimum Standard	Credits		
(intres/person/day)						
>150	Typical basel	ine performance	N/A	0		
[All showers specified to 'Goo	d' OR All taps and WC's to 'Good'	,			
from 140 to ≤ 150	OR Kitchen fittings	specified to 'Excellent'	N/A	0.5		
from 129 to < 140	All showers specified to 'I	Excellent' OR All showers and	BREEAM Very Good	1		
	bathroom All bathroom and WC room f	taps to 'Good' fittings specified to 'Good' OR All				
from 118 to < 129	bathroom fittings	specified to 'Excellent'	N/A	1.5		
	All Bathroom and WC room f	ittings specified to 'Excellent' OR				
from 107 to < 118	All Bathroom fittings Specif	ied to 'Excellent' and WC room	BREEAM Excellent	2		
	fitting specified to 'Good' OR	All Bathroom fittings, kitchen and		2		
	utility sittings s	specified to 'Good'				
from 06 to < 107	All kitchen, bathroom, util	ity room and WC room fittings	N/A	2.5		
from 96 to < 107	specified to 'Good' OR All I	ied to 'Excellent'	N/A	2.5		
< 96	All bathroom fittings specifi	ied to 'Excellent' and WC room,	PREEAM Outstanding	2		
	kitchen and utility room	fittings specified to 'Good'				
NOTE: 'Good' fittings are equiva	lent to good practice fittings wi	th "Excellent" fittings equivalent t	to best practice fittings (see the tecl	nnical manual for full details.	Indica	tivo Innovation
			If the water consumption is less	than	Cree	dits Achieved
	_	Exemplary Credit	80l/person/day			ease Select
Comments						
Wat 02 External Water Use						
No. of BREEAM credits available	1		Available contr	ribution to overall score	2.20%	
No. of BREEAM innovation credits	0		Minimu	m Standards applicable	No	estivo Crodito
Where the following requirements will be n	net:					1
	Requirements:					
		Where a compliant rainwater co	llection system for external/interna	I irrigation use has been prov	ided to	
	One Credit	dwellings.				
		Where dwellings have no individ	dual or communal garden space.			
Comments					I	
Wat 03_Water Meter						
No. of BREEAM credits available	1		Available contr	ibution to overall score	2.20%	
No. of BREEAM innovation credits	0		Minimu	m Standards applicable	No	
Assessment Criteria					Indio	ative Credits
vnere an appropriate water meter for mea comments	suring usage of mains potable v	water meter has been provided to	o uwening(s), one credit may be aw	arueu		1

MATERIALS		Section weighting. 676		Пасан			
Aat 01 Environmental Impact of Ma	terials						
No. of BREEAM credits available	25		Available	contribution to overall sco	ore 4	4.44%	
No. of BREEAM innovation credits	0		Mi	inimum Standards applicab	ple	No	
essment Criteria						Indicati	ve Credits
to 25 credits can be awarded, with cred	ts calculated using the Mat 0	1 calculator tool. The table below s	shows the maximum number o	of credits available for each		=,×	15
nent:	onto	Groon Guido Poting o	radite available	Thormal porformance croc	dite available*		
Bo	of				and available	_	
Externa	l walls	5		3.8			
Internal walls (includ	ing separating walls)	5		-			
Upper and G	round Floor	5		1.2			
Wind	ows	5		2			
The full 25 cre	dits represents all of the elen	nents containing refurbished or exi	sting materials that meet the G	Green Guide Rating of A+(6)			
GG Ra	ating	Points for existing / ref	urbished elements	Points for new ele	ments		
A+	(6)	5					
A+	(5)	4.6					
A+	(4)	4.2					
A+	<u>,3)</u> (2)	3.8					
A+	<u>,2)</u>	3.4		2			
	r						
		1		2 1			
(05		0.5			
		0.25		0.25			
E		0		0			
Where the full 25 credits cannot	be achieved the score can b	e 'topped up' with thermal perform	nance credits. The full number	of thermal performance cre	edits for each		
element can be achieved when a	achieving the minimum U-val	ues shown below.					
Elem	ents	Minimum U-Valu	ie (W/m2K)				
Ro	of	0.11					
Externa	I walls	0.15					
Internal walls (includ	ng separating walls)	-					
Upper and G		0.15					
	lows	1.4					
mments							
Nat 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits	erials <u>12</u> 0	-	Available Mi	contribution to overall sco inimum Standards applicab	pre	2.13% Yes	-
Mat 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria	erials 12 0	-	Available Mi	contribution to overall sco inimum Standards applicab	pre; ble	2.13% Yes Indicati	ve Credits
Nat 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria	erials 12 0		Available Mi	contribution to overall sco inimum Standards applicab	pre ble	2.13% Yes Indicati	ve Credits 6
No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here new materials are responsibly sourc	erials	warded where 80% of new materia	Available Mi als for an element are responsil	contribution to overall sco inimum Standards applicab bly sourced. The credits	ore; ble	2.13% Yes Indicati	ve Credits 6
Iat 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria nere new materials are responsibly source nieved are dependent on % of point achie Table 1	erials 12 0 ed, up to 12 credits may be a ved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e	Available Mi als for an element are responsil each material sourced as detaile Points	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	ore	2.13% Yes Indicati	ve Credits 6
Iat 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here new materials are responsibly source nieved are dependent on % of point achie Table 1	erials 12 0 ed, up to 12 credits may be a eved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1	Available Mi als for an element are responsil each material sourced as detaile Points 4	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	ore	2.13% Yes Indicati → timber used in	ve Credits 6 the project
at 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly sourc ieved are dependent on % of point achie Table 1	erials 12 0 ed, up to 12 credits may be a eved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	ore ble Will all new sourced Governm	2.13% Yes Indicati ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	ve Credits 6 the project <i>i</i> th the UK ocurement
at 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly sourc ieved are dependent on % of point achie Table 1	erials	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5 3	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w hent's Timber Pr Yes	ve Credits 6 the project vith the UK ocurement
Iat 02 Responsible Sourcing of Mate No. of BREEAM credits available No. of BREEAM innovation credits ressment Criteria ere new materials are responsibly source ieved are dependent on % of point achie Table 1	erials 12 0 ed, up to 12 credits may be a eved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5 3 2.5	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	Will all new Sourced Governm	2.13% Yes Indicati ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	ve Credits 6 the project vith the UK ocurement
Iat 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here new materials are responsibly sourchieved are dependent on % of point achie Table 1	erials	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5 3 2.5 2	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w hent's Timber Pr Yes	ve Credits 6 the project <i>v</i> ith the UK ocurement
lat 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits ressment Criteria ere new materials are responsibly sourc lieved are dependent on % of point achie Table 1	erials 12 0 ed, up to 12 credits may be a ved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5 3 2.5 2 1.5	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w hent's Timber Pr Yes	ve Credits 6 the project <i>i</i> th the UK ocurement
Ant 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits ressment Criteria ere new materials are responsibly sourc ieved are dependent on % of point achie Table 1	erials 12 0 ed, up to 12 credits may be a eved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7	Available Mi als for an element are responsil each material sourced as detaile 4 3.5 3 2.5 2 1.5 1	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w nent's Timber Pr Yes	ve Credits 6 the project <i>v</i> ith the UK ocurement
An of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly sourc ieved are dependent on % of point achie Table 1	erials 12 0 ed, up to 12 credits may be a eved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7 8	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5 3 2.5 2 1.5 1 0	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w hent's Timber Pr Yes	ve Credits 6 the project <i>i</i> th the UK ocurement
An of BREEAM credits available No. of BREEAM innovation credits cessment Criteria here new materials are responsibly sourchieved are dependent on % of point achie Table 1	erials	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7 8	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5 3 2.5 2 1.5 1 0	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w hent's Timber Pr Yes	ve Credits 6 the project vith the UK ocurement
Iat 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits resement Criteria here new materials are responsibly source hieved are dependent on % of point achie Table 1	erials 12 0 ed, up to 12 credits may be a eved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7 8 8 EAM credits	Available Mi als for an element are responsil each material sourced as detaile <u>Points</u> 4 3.5 4 3.5 2.5 2 1.5 1 0 0	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	ore ble Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w nent's Timber Pr Yes	ve Credits 6 the project <i>i</i> th the UK ocurement
And the available of the second secon	erials 12 0 ed, up to 12 credits may be a eved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7 8 EAM credits 12 10	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5 3 2.5 2.5 2 1.5 1 0 15 0 10 0 10 0	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w hent's Timber Pr Yes	ve Credits 6 the project vith the UK ocurement
at 02 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits essment Criteria ere new materials are responsibly source ieved are dependent on % of point achies Table 1	erials 12 0 ed, up to 12 credits may be a eved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7 8 EAM credits 12 10 8	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5 4 3.5 2.5 2 1.5 2 1.5 1 0 of available point $\geq 54\%$ $\geq 26\%$	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below:	ore ble Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w nent's Timber Pr Yes	ve Credits 6 the project <i>i</i> th the UK ocurement
And the available of the second state of the s	erials 12 0 ed, up to 12 credits may be a eved which is based upon the	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7 8 EAM credits 12 10 8 6	Available Mi als for an element are responsil each material sourced as detaile Points 4 3.5 4 3.5 2.5 2 2.5 2 1.5 1 0 $\frac{1}{5}$ 2 $\frac{1}{5$	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below: 	Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w hent's Timber Pr Yes	ve Credits 6 the project vith the UK ocurement
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A Constant State S	erials	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7 8 EAM credits 12 10 8 6 4 2	Available Mi als for an element are responsile each material sourced as details Points 4 3.5 3 2.5 2 2 1.5 2 1.5 1 0 0 $\overset{\circ}{}$ of available point $\geq 54\%$ $\geq 27\%$ $\geq 18\%$ $\geq 9\%$	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below: 	Will all new sourced Governm	2.13% Yes Indicati → timber used in in accordance w hent's Timber Pr Yes	ve Credits 6 the project vith the UK ocurement
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And 2 Responsible Sourcing of Mat No. of BREEAM credits available No. of BREEAM innovation credits sessment Criteria here new materials are responsibly source nieved are dependent on % of point achie Table 1 Table 2	erials	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7 8 8 EAM credits 12 10 8 6 4 2	Available Mi als for an element are responsite each material sourced as details A A A A A A A A A A A A A A A A A A A	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below: 	ore ble Will all new sourced Governm	2.13% Yes Indicati r timber used in in accordance v nent's Timber Pr Yes	the project /ith the UK ocurement
Mat 02 Responsible Sourcing of Mattan No. of BREEAM innovation credits Sessment Criteria here new materials are responsibly source nieved are dependent on % of point achies Table 1	erials	warded where 80% of new materia e responsible sourcing tier level of e Tier level 1 2 3 4 5 6 7 8 EAM credits 12 10 8 6 4 2	Available Mi	contribution to overall sco inimum Standards applicab bly sourced. The credits ed below: 	ore Die Will all new sourced Governm	2.13% Yes Indicati in accordance w hent's Timber Pr Yes	ve Credits 6 the project vith the UK ocurement
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WASTE		Section Weighting: 3%	Indicative Section Score 2.40%
Was 01 Household Wasta			
No. of BREEAM credits available	2	Avail	able contribution to overall score 1.20%
No. of BREEAM innovation credits	0		Minimum Standards applicable No
Assessment Criteria		•	Indicative Credits
Where compliant recycling and composting facilit	es are provided, up to tv	vo credits may be awarded as follows	
	F	irst Credit - Recycling Facilities	
Scenario		Internal recycling storage requi	rements
		1 internal recycling containers provided where recycling	ling is sorted post collection
Compliant collection sche	eme in place	Minimum 30 litre total capacity, no single contain	er less than 7 litre capacity
		Dedicated position in accordance with co	ompliance note 1
No compliant collection scl	neme in place	3 internal recycling containers p	provided
No adequate external	storage	Minimum 60 litre total capa	acity
		2 internal recycling containers r	ompliance note 1
No compliant collection scl	neme in place	Minimum 30 litre total capacity, no single containers	smaller than 7 litre capacity
Adequate external stora	ge provided	Dedicated position in accordance with co	ompliance note 1
		· · · ·	
	Second credit - Com	posting facilities	
With external sp	ace	Without external space	
Where a composting service or fa	cility is provided for	Where a composting service or facility is provided for	
green/garden wa	iste v is provided for kitchen	Kitchen Waste Where an interior container is provided for kitchen	4
	y is provided for kitchell	composting waste of at least 7 litres	
Where an interior container is p	rovided for kitchen		
composting waste of at I	east 7 litres		
Comments			
Mos 07 Defunction and Site Most of the			
No. of BREFAM credits available	3		able contribution to overall score 1 80%
No. of BREEAM innovation credits	<u> </u>		Minimum Standards applicable No
Assessment Criteria			Indicative Credits
Jp to three credits are available depending on the	e site waste management	t plan to be implemented as follows	3
Projects up to £100k			
Three Credits		Where waste generated through the refurbishment proce	ess is managed in accordance with Indicative Innovation
		Checklist A-9	Credits Achieved
Exemplary Cred	lit	Where a compliant Level 1; Site Waste Manageme	ent Plan (SWMP) is in place Please Select
Projects up to £300k		Where a compliant Level 1: Site Waste Management Plan	(SW/MP) is in place
		Where a compliant Level 1, Site Waste Management Plan	(SWMP) is in place
		Non-hazardous construction waste generated by the dwe	Illings refurbishment meets or
Even plant Cue	1:1	exceeds the resource efficiency benchmark	Ĵ
	11L	The percentage of non-hazardous construction waste and	d demolition waste generated by
		the project has been diverted from landfill and meets or e	exceeds the refurbishment &
		demolition waste diversion benchmarks	
Projects over ±300k		(
Management Pl	an	Where a compliant Level 2; Site Waste Manageme	ent Plan (SWMP) is in place
		First credit achieved	
		Non-hazardous construction waste generated by the dwe	llings refurbishment meets or
Second Credi		exceeds the resource efficiency benchmark	
Good Practice Waste Be	enchmarks	Amount of waste generated against £100,000 of project v	value is recorded in the SWMP
		Pre-refurbishment audit of the existing building is comple	eted
		If demolition is included as part of the refurbishment pro-	gramme, then the audit should
		also cover demonition materials Where the first two credits have been achieved achieved	
Third Credit		Where Non-hazardous demolition waste generated by the	e dwellings refurbishment meets
Best Practice Waste Be	nchmarks	or exceeds the refurbishment & demolition waste diversion	on benchmarks
		Where non-hazardous construction waste generated by t	he dwellings refurbishment
Exemplary Cree	lit	meets or exceeds the <i>exemplary level resource efficiency</i>	benchmark
		Where Non-hazardous demolition waste generated by the	e dwellings refurbishment meets
		or exceeds the exemplary level diversion benchmarks	
omments			
Smillents			
POLLUTION		Section Weighting: 6%	Indicative Section Score 2.25%
No. of REEGAM credits available	2	A	able contribution to overall score 2 25%
No. of BREFAM innovation credits	0	Avail	Minimum Standards applicable No
Assessment Criteria	•		Indicative Credits
Credits are awarded on the basis of NOx emission	s arising from the operat	ion of space heating and hot water systems for each refur	pished dwelling as follows:
		,	-
		Dry NOx	Emissions
	On	e Credit ≤100 mg/kWh (N	NOx class 4 boiler)
	Two	o Credits ≤70 mg/kWh (N	Ox class 5 boiler)
Commonto	Thre	e creatts ≤40 m	18/ K VV N
comments			

Pol 02 Surface Water Runoff			
No. of BREEAM credits available	3	Available contribution to overall score 2.	25%
No. of BREEAM innovation credits	1	Minimum Standards applicable	No
Assessment Criteria			Indicative Credits
Where impacts of the refurbishment on surfa	ace water runoff are neutr	alised or where runoff is reduced as a result of refurbishment, up to three credits can be	1
awarded as follows:	Poquiromonto		
	Requirements	New hard standing areas must be permeable	7
One Cre	edit	If building on to previously permeable area additional run-off must be managed on site	-
Neutral Impact on	Surface Water	Calculations should be carried out by an appropriately qualified professional	1
	Requirements		
		Where the criteria needed for One Credit has been achieved	
OR Second	l Credits	Where all run-off from the roof for rainfall depths up to 5 mm, have been managed on site using source	
		control methods	-
Reducing Run-Off F	rom Site: Basic	An appropriately qualified professional should be used to design an appropriate drainage strategy for the	
		site	
	Requirements	5.00	
		Where run-off as a result of the refurbishment is managed on site using source control]
		An appropriately qualified professional should be used to design an appropriate drainage strategy for the	7
		site.	4
OR Three	Credits	The peak rate of run-off as a result of the refurbishment for the 1 in 100 year event has been reduced by	
	Sito: Advaced	75% from the existing site.	4
		for a 1 in 100 year event of 6 hour duration has been reduced by 75%	
		An allowance for climate change must be included for all of the above calculations, in accordance with	-
		current best practice (PPS25, 2010).	
	Requirements		Indicative Innovation
		Where all run-off from the developed site is managed on site using source control	Credits Achieved
		The peak rate of run-off as a result of the refurbishment for the 1 in 1 year event is	Please Select
		reduced to zero.	
Evemplan	(Credit	The peak rate of run-off as a result of the returbishment for the 1 in 100 year event is	
Litemplary	Clean	There is no volume of run-off discharged into the watercourses and sewers as a result of	
		the refurbishment, for a 1 in 100 year event of 6 hour duration.	
		An allowance for climate change must be included for all of the above calculations, in	
		accordance with current best practice (PPS25, 2010).	
Comments			
Pol 03 Flooding			
No. of BREEAM credits available	2	Available contribution to overall score 1.	50%
No. of BREEAM innovation credits	0	Minimum Standards applicable	/es
Assessment Criteria			Indicative Credits
Where the dwelling is located in a low flood r	risk zone, or where in a m	edium to high flood risk zone and a flood resilience/resistance strategy has been implemented,	2
up to two credits can be awarded as follows:			7
Minimum St	tandards	A minimum of two credits must be achieved for this issue at the Excellent and Outstanding levels	
Option 1 - Low Flood Risk			
		Where a Flood Risk Assessment (FRA) has been carried out and the assessed dwellings are defined as	7
I wo Cre	edits	having a low annual probability of flooding.	
Option 2 - Medium / High Flood I	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.	-
		we create a warded 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	*
Two Cre	edits	Flow Chart.	
		Where avoidance is not possible, two credits are achieved where a full flood resilience/resistance strategy	1
		is implemented for the dwellings in accordance with recommendations made by a Suitably Qualified	
		Building Professional	
Comments			

BREEAM Domestic Refurbishment 2012 Pre-Assessment Estimator v0.6: Results Summary

	Indicative Indicative I	Building name Building Score Building Rating		71.05% BREEAM Excell	ent
	Issue	Credits Available	Indicative Credits Achieved	Weighting	Section Score
	Man 01	3	3		
	Man 02	2	1		
Managamant	Man 03	1	1	1 70/	10.01%
wanagement	Man 04	2	2	1270	10.91%
	Man 05	1	1		
	Man 06	2	2		
	Hea 01	2	1		
	Hea 02	4	3		
Health and	Hea 03	1	0	170/	11 230/
Wellbeing	Hea 04	2	1	17%	11.33%
	Hea 05	2	2		
	Hea 06	1	1		
	Ene 01	6	1		
	Ene 02	4	3.5		
	Ene 03	7	6		
	Ene 04	2	1		
F	Ene 05	2	2		20.040/
Energy	Ene 06	1	1	43%	28.91%
	Ene 07	2	2		
	Ene 08	2	2		
	Ene 09	2	0		
	Ene 10	1	1		
	Wat 01	3	2		
Water	Wat 02	1	1	11%	8.80%
	Wat 03	1	1		
	Mat 01	25	15		
Materials	Mat 02	12	6	8%	4.44%
	Mat 03	8	4		
	Was 01	2	1		
Waste	Was 02	3	3	3%	2.40%
	Pol 01	3	0		
Pollution	Pol 02	3	1	6%	2.25%
	Pol 02	2	2		
		-	-		
Innovati	on	10	2	Ν/Δ	2 00%

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

	Minimum Standards						
	Pass	Good	Very Good	Excellent	Outstanding		
Ene 02	4	4	4	1	4		
Wat 01	1	~	1	1	×		
Hea 05	~	~	~	~	~		
Hea 06	~	~	~	~	~		
Pol 03	~	4	4	1	4		
Mat 02	4	4	4	4	4		



BREEAM®

0%	10	0%
	91%	
80%		
80%		
	0% 80%	0% 10 91% 80%

APPENDIX C: BREEAM NON DOMESTIC REFURBISHMENT PRE-ASSESSMENT



BREEAM Non-Domestic Refurbishment and Fit Out Pre-Assessment for

61-65 Charlotte Street

		Management		Credits available	Part 1 Credit
Issue ID	Issue title	Criteria	Summary	1	
Man 01	Project brief and design	1	Summary		
		Stakeholder consultation (project delivery)	Setting out roles and responsibilities for project delivery	1	
		Stakeholder consultation (third party)	Consulation with appropriate stakeholders e.g. existing building occupants	1	
		Sustainability champion (design)	Appointment of a sustainability champion to facilitate setting and acheivement of BREEAM targets up to concept design stage	1	
		Sustainability champion (monitoring progress)	Appointment of a sustainability champion to facilitate setting and acheivement of BREEAM targets throughout the desing process.	1	
Man 02	Lifecycle cost and service	ce life planning			
		Elemental lifecycle cost	Conducting an elemental lifecycle costing study in accordance with PD 156865:2008.	1	
		Componnent level LCC plan	A component LCC plan for components within scope of works	1	
		Capital cost reporting	Reporting of capital cost)	1	
Man 03	Responsible construction	on practices			
		Environmental management	Use of contractors that have an environmental management policy and that implement best practice Pollution Prevention	1	
		Sustainability champion (construction)	Appointing a sustianability champion to facilitate achievement of BREEAM performance targets through construction and handover stages	1	
		Considerate construction	Achievement of compliance or beyond compliance with a compliant considerate construction scheme	2	

2, 3 & 4: assumed	Comments
1	
1	
0	Given the scale of this development it is felt that the appointment of a second BREEAM consultant is not necessary and that adequate advice can be sought from the appointed BREEAM assessor.
0	Given the scale of this development it is felt that the appointment of a second BREEAM consultant is not necessary and that adequate advice can be sought from the appointed BREEAM assessor.
0	This credit has been excluded due to the costly
0	nature of achieving compliance and the minimal benefit when compared with other credits.
0	
1	
0	Given the scale of this development it is felt that the appointment of a second BREEAM consultant is not necessary and that adequate advice can be sought from the appointed BREEAM assessor.
1	One credit required for Excellent

		Monitoring of refurbishment or fit-out site impacts	Monitoring of energy, water and transport impacts during refurbishment or fit-out	2	1	
Man 04	Commissioning and han	dover				
		Commissioning and testing schedule and responsibilities	Having a commissioning and testing schedule and responsibilities agreed	1	1	
		Commissioning building services	Commissioning building services in line with best practice	1	1	
		Testing and inspecting building fabric	Quality assuring fabric (air tightness, continuity of insulation, thermal bridging) through visual inspection and testing (air leakage and thermographic surveys) to best practice standards	1	0	The building will be constructed to achieve Part L compliance and will use Robust Details, as such the risk of thermal bridging will be minimised wherever possible, as a result this credit has not been pursued at this stage.
		Handover	Provision of a building users guide and implementation of a training schedule for occupants at handover	1	1	Mandatory requirement for Excellent.
Man 05	Aftercare					
		Aftercare support	Ongoing aftercare support for first 12 months and the monitoring of energy and water use to identify any discrepancies in performance from design.	1	1	
		Seasonal commissioning	Conducting seasonal conditioning over first 12 months of operation	1	1	Mandatory requirement for Excellent.
		Post occupancy evaluation	Conducting a post occupancy evaluation during first 12 months of occupation to gain in-use performance feedback and appropriate dissemination of results	1	1	
			Total Credits Available & Awarded	20	11	

Issue ID	Health & Wellbeing			Credits available	Part 1, 2, 3 & 4: Credits assumed	Comments
Hea 01	Visual comfort					
		Glare control	Provision of glare control measures	1	1	
		Daylighting	Design of the space to optimise areas that benefit from good daylighting and improving daylighting levels through refurbishment measures.	3	1	
		View out	Design of the space to optimise desks with a view out in accordance with view out criteria	2	0	Due to the incorporation of a lower ground floor and the retention of existing walls this credit cannot be pursued.
		Internal and external lighting	Best practice internal and external lighting levels and zoning	1	1	
Hea 02	Indoor air quality					
		Indoor air quality plan	Developing an air quality plan to reduce impacts on air quality as a result of refurbishment or fit-out works	1	1	
		Ventilation	Meeting best practice ventilation levels	1	1	
		Volatile organic compounds	Use of products with low VOCs and appropriate testing	2	0	It is unclear at this stage as to whether the specification of the finishes will achieve the required VOC levels, therefore these credits have not been pursued at this stage.
		Potential for natural ventilation	Provision of fresh air through a natural ventilation strategy	1	0	The proposals do not include openable windows for security and aesthetic reasons, therefore this credit cannot be pursued.

Hea 04	Thermal comfort					
		Thermal modelling	Conducting thermal modelling in accordance with CIBSE guidance (or assessment of the existing system performance by an engineer to inform future works in the case of Part 4 assessments)	1	1	
		Adaptation - for a projected climate change scenario	Where modelling demonstrates that systems are appropriate for a future climate change environment (or where not feasible identifying future adaptations in the case of a Part 3 or 4 assessment)	1	1	
	_	Thermal zoning and controls	Best practice zoning and appropriate occupant control	1	1	
Hea 05	Acoustic performance					
		Acoustic performance	Assessing scope of works against best practice criteria to determine impact on sound insulation, ambient noise levels and reverberation times.	3	2	
Hea 06	Safety and security					
		Security of site and building	Where a suitable qualified security specialist has assesed the security needs of the site and appropriate measures to address issues identified in the security needs assessment have been implemented.	1	1	
Total Credits Available & Awarded				19	11	

Issue ID	Credits available	Part 1, Credits			
Ene 01	Reduction of energy i	Reduction of energy use and carbon emissions emissions	Measuring improvement in existing energy performance through using the BREEAM Ene01 assessment tools at the whole building or elemental approach as appropriate to scope of works.	15	
Ene 02	Energy monitoring	Sub-metering of major energy consuming systems	Where 90% of energy load is appropriately metered through energy metering systems	1	
		Sub-metering of high energy load and tenancy areas	Metering of tenanted or department/function areas	1	
Ene 03	External lighting	Estevent lighting	En europe officieur de conterne el liebtin e	4	
Fne 04	I ow carbon design	External lighting	Energy efficient external lighting	L	
	200 64.00.1 400.5.1	Passive design analysis	Passive design analysis and implementation of passive design measures	1	
		Free cooling	Implementation of free cooling measures	1	
		Low and zero carbon technologies	Low and zero carbon techology feasibility study	1	
Ene 06	Energy efficient trans	portation systems			
		Energy consumption	Size and number of newly specified transportation systems is optimised	1	
		Energy efficient measures	Specification of energy efficient measures for existing and newly specified transportation systems	1	

2, 3 & 4: assumed	Comments
9	Six credits required for Excellent
1	Mandatory requirement for Excellent.
1	
1	
0	Due to the constraints of this development and the re-use of the existing development it has not been possible to award this credit at this stage.
0	The above credit must be achieved to award this credit, therefore this credit has not been targeted.
1	
1	
1	

Ene 08	Energy efficient equipment				
	Energy efficient equipment	Measuring and reducing unregulated energy demands through use of energy efficient equipment	2	2	
	1	Total Credits Available & Awarded	25	17	

Ä	Transport			Credits available	Part 1, 2, 3 & 4: Credits assumed	Comments
Issue ID	Issue title	Criteria	Summary			
Tra UI	Sustainable transpo	Accessibility index	Assessing the sites access to pubic transport facilities.			
		Alternative transport measures	Developing alternative transport measures where the site has poor pubic transport access.	3	3	
Tra 02	Proximity to ameni	ities				
		Proximity to amenities	Assessing the sites access to basic amenites	1	1	
Tra 03	Cyclist facilities					
		Cycle storage	Provision of cycle storage spaces	1	1	
		Cylist facilities	Provision of cyclist facilities e.g. showers, lockers, drying facilities, changing facilities	1	1	
Tra 05	Travel plan					
		Travel plan	Development of a site specific travel plan with a package of measures to promote sustainable travel	1	1	
			Total Credits Available & Awarded	7	7	

	Water			Credits available	Part 1, 2, 3 & 4: Credits assumed	Comments
Issue ID	Issue title	Criteria	Summary]		
Wat 01	Water consumption					
		Water consumption	Specification of water efficient equipment	5	3	One credit required for Excellent
Wat 02	Water monitoring					
		Water monitoring	Provision of water metering equipment	1	1	
Wat 03	Leak detection					
		Leak detection system	Specification of leak detection system on the incoming mains	1	1	
		Flow control devices	Providing flow control devices that regulate water supply to WC areas	1	1	
			Total Credits Available & Awarded	8	6	

Issue ID Mat 01	ID Issue title Criteria Summary It Lifequelo impacto			Credits available	Part 1, 2, 3 & 4: Credits assumed	Comments
			Using robust Lifecycle assessment tools, specification of materials with robust environmental claims and re-using existing elements in situ.	6	4	
Mat 03	Responsible sourcir	ng of materials				
		Sustainable procurement plan	Where the contractor has a sustainable procurement plan	1	1	Mandatory requirement for Excellent
		Responsible sourcing of materials	Recognising where a basic minimum number of material types have been responsibly sourced up to where products that have been responsibly sourced have been assessed and quantified.	3	1	
Mat 04	Insulation					
		Insulation	Use of insulation that has a low embodied impact	1	1	
Mat 05	Designing for durab	bility and resilience				
			The use of suitable durability measures to protect vulnerable parts of the building and external parts of the building	1	1	
Mat 06	Material efficiency					
		Material efficiency	Where opportunities have been taken to optimise material use throughout refurbishment and fit-out (e.g. designing out waste).	1	1	
			Total Credits Available & Awarded	13	9	

	Waste				Credits available	Part 1, Credits
Issue ID	Issue title	Criteria	Summary			
Was 01	Construction waste management					

2, 3 & 4: assumed	Comments

		Pre-refurbishment audit	Where a pre-refurbishment audit has been conducted to identify materials that can be re-used and to set appropriate waste targets.	1	1	
		Re-use and direct recycling of materials	Where materials have been directly re-used or recycled	2	1	
		Resource efficiency	Acheivement of resource efficiency targets	3	2	
		Diversion of waste from landfill	Achievement of diversion from landfill targets	1	1	
Was 02	Recycled aggregates					
		Recycled aggregates	Recycling of high grade aggregate, use of secondary aggregate and aggregates in situ	1	0	This credit has not been targeted at this stage as material sourcing will be developed at detailed design stage, where opportunities to incorporate recycled aggregated will be explored.
Was 03	Operational waste					
		Operational waste	Provision of facilities for the storage of operational waste	1	1	
Was 05	Adaptation to climate cha	ange				
		Adaptation to climate change - structural and fabric resilience	Where a Climate change resilience study has been conducted to provide structural and fabric resilience to climate change	1	0	A thermal model will be developed which accounts for climate change, therefore a climate change adaptation strategy will be unnecassary as the design of the building will already accommodate anticipated climate change. The
		Responding to adaptation to climate change	Where a holistic approach has been adopted to make the building resilient to climate change	1	0	site is located in a low flood risk area.
Was 06	Functional adaptability					
		Functional adaptabiliy	Implementation of adaptability measures to accommodate future changes	1	0	Due to the nature of the refurbishment and the retention of the existing structure the functional adaptability of the development is limited and this credit is deemed to be unachievable.
	Total Credits Available & Awarded					

X
×0

		Land use and ecolog	Land use and ecology		Part 1, 2, 3 & 4: Credits assumed	Comments
Issue ID	Issue title	Criteria	Summary			
Le 02	Protection of ecolo	gical features				
		Protecting ecological value	Where features of ecological value have been protected throughout refurbishment or fit-out works	1	1	
Le 04	Ecological enhance	ment				
		Ecological enhancement	Where a suitably qualified ecologist has been consulted and their recommendations have been implemented for the enhancement of the sites ecological value	1	1	
			Total Credits Available & Awarded	2	2	
fi	Pollution					Comments
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Issue ID	Issue title	Criteria	Summary]		
Pol 01	Impact of refrigerants	- T				
		Impact of refrigerants	Where the systems using refrigerants have Direct Effect Life Cycle equivalent emissions (DELC CO2e) that meet benchmark levels or of a GWP less than 10	1	1	
		Leak detection	Specification of leak detection and recovery systems	1	0	The opportunities to achieve this credit have been explored however it has been deemed unfeasible to achieve this credit.
Pol 02	NOx Emissions					
		NOx emissions	Achievement of Nox emission benchmarks for heating and hot water	3	0	Due to the energy strategy proposed this credit is not achievable.
Pol 03	Flood risk and reducing					
		Flood risk management	Where the refurbishment of fit-out zone has a low risk of flooding or implements flood resilience or resistance measures.	2	2	
		Surface water run-off	Where the project makes a neutral impact on surface water or reduces site runoff	2	1	
		Minimising watercourse pollution	Implementation of measures to reduce watercourse pollution	1	0	A drainage strategy will be developed at detailed design stage, however it is felt at this stage that this credit cannot be achieved given the limited opportunity to incorporate SuDs into the scheme.
Pol 04	Reduction of night time					
		Reducing night time light pollution	Where external lighting has been designed out or external lighting meets best practice	1	1	
			Total Credits Available & Awarded	12	6	
Scheme Total Credits Available & Awarded					64.38%	