

Greenwood Place, 96-98 Shoot Up Hill

Sustainability Statement

January 2016 Job Ref. 1213 Greenwood Place





SHOOT UP HILL

SUSTAINABILITY STATEMENT

REVISION B

Final version by Stewart Park, reviewed by Alex Maguire, issued 08 January 2016



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1.0 INTRODUCTION

1.1 PREAMBLE

A team of construction professional are developing proposals for the refurbishment 96-98 Shoot Up Hill.

TGA consulting Engineers LLP has been engaged, as part of the Tibbalds multi-disciplinary team, to provide professional design services associated with the redevelopment of the Shoot Up Hill property. TGA's role includes development of the energy and building engineering services strategies for the development.

Development proposals are currently at RIBA stage D

1.2 CAMDEN COUNCIL PLANNING POLICIES

All new and refurbished building developments in the London Borough of Camden are required to meet minimum standards relating to sustainability, energy efficiency and carbon reduction. This is in line with London wide and national aspirations set by the London Mayor and the UK Government.

In the London Borough of Camden area, sustainability, energy efficiency and carbon reduction all feature in the planning process. Planning guidance on these matters is set out in the Local Development Framework and, in particular, in the following inter-related policy documents:

- CPG3 Sustainability
- CS13 Tackling Climate Change Through Promoting Higher Environmental Standards
- DP22 Promoting Sustainable Design and Construction
- DP23 Water
- CS16 Improving Camden's Health and Wellbeing
- DP32 Air Quality & Camden's Clear Zone

The formulation of a viable design strategy for this project, as defined in this Sustainability Statement, takes into account guidance contained in the above listed documentation.

1.3 SUSTAINABILITY ASSESSMENT TOOLS

Existing buildings which feature in this project have been assessed using BRE environmental and sustainability standard, BREEAM assessments tools.

1.4 THIS REPORT

The purpose of this report is to identify design strategies and features relating to sustainable design, construction and operation which have been embodied into the development proposals and will be carried forward into the detail design and construction phases of the project and beyond.

In the first instance, the information contained in this report is will enable the local authority Planning Team to consider and understand the measures and features, relating to sustainability, that have been incorporated into the development proposals thus far.



The emphasis in this report is on sustainable design, construction and operation. The specific issue of energy, which come under the general heading of 'sustainability' has been covered in a separate document. Refer to a separate document entitled 'Energy Statement'.



2.0 DEVELOPMENT PROPOSALS

2.1 PROJECT DESCRIPTION

96-98 Shoot-up Hill is a Camden Council owned buildings located in the Kentish Town area of London. Community facilities provided in this buildings will become redundant following completion of the Greenwood Estate development.

Proposals have been developed to convert the Shoot up Hill property into residential apartments and the building is to be designed to achieve a BREEAM 'Very Good' rating.

The following section of the report describes the key strategies that have been adopted under the general heading of sustainability.

2.2 SUSTAINABILITY FEATURES

Sustainability issues relating to design, construction and operation of the refurbished buildings, has been carefully considered during the early design stages.

The building and its building services proposals reflect and incorporate many of the required features and facilities that will ultimately be included in the completed buildings. The next stage in the design process will involve incorporating those features which, of necessity, are not confirmed until the later design stages.

Issues that have been considered in detail include

- Building envelope and building services installations
- Energy conservation, energy efficiency and energy supply
- Materials
- Water conservation
- Pollution, air quality and noise
- Wastes
- Construction site impacts

All of the above items are addressed in the BREEAM assessment tool.



3.0 BREEAM PRE ASSESSMENT OUTCOMES

3.1 96-98 SHOOT UP HILL

A preliminary assessment under the BRE environmental and sustainability standard BREEAM, Domestic Refurbishment 2014, has been produced for this building. A copy of the pre-assessment results summary, produced by RSK Group, is included in appendix A.

The building achieves BREEAM 'Very Good' rating with a score of 55.4%. A minimum required score of 55% must be achieved,

Specific design features that have been incorporated into the stage D design include

- Improved building u values
- Individual high-efficiency, condensing gas-fired boiler units located in each dwelling
- New energy efficient building engineering services installations.



4.0 CONCLUDING REMARKS

As part of a planning submission for this development, a Sustainability Statement is required to be prepared and submitted. This document is intended to fulfil that requirement.

Development proposals are at RIBA stage D and the information included in the attached pre assessment results summary, produced by RSF Group, describes the design features that have been included into the project.

BREEAM pre-assessment has been included in appendix A.

As the design process moves forward into the next stage and beyond, the appointed design team will be required to develop the design proposals in a manner compatible with the expectations set out in the pre-assessment documentation included with this document.

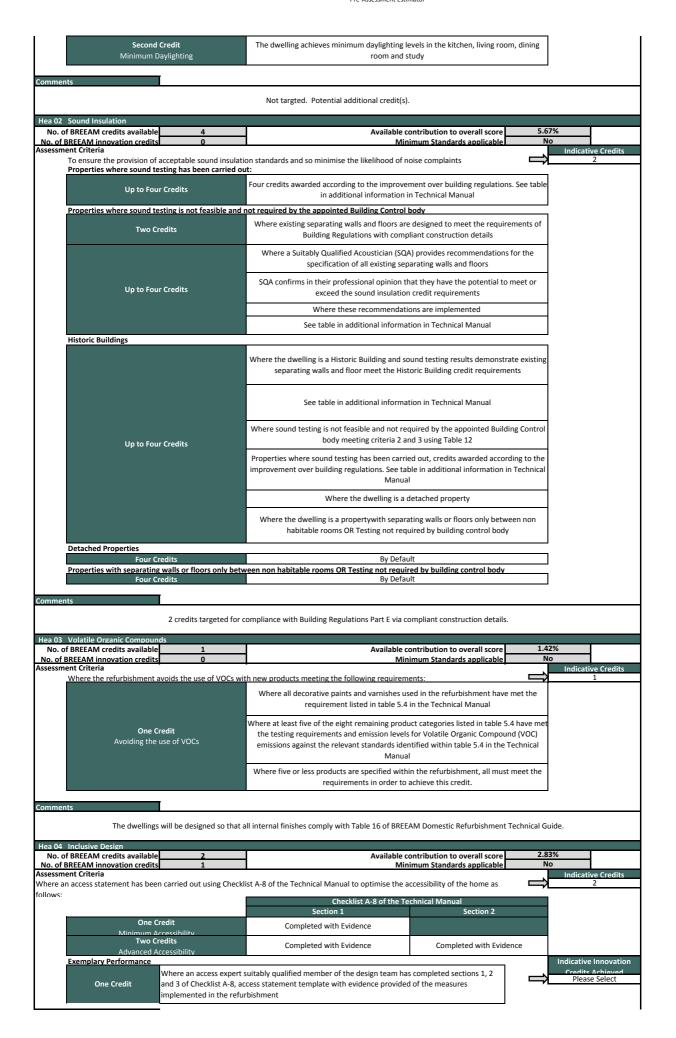
In conclusion, TGA Consulting Engineers believe that the sustainable design, construction and operating standards described in this sustainability statement represents a pragmatic and feasible plan for the development.

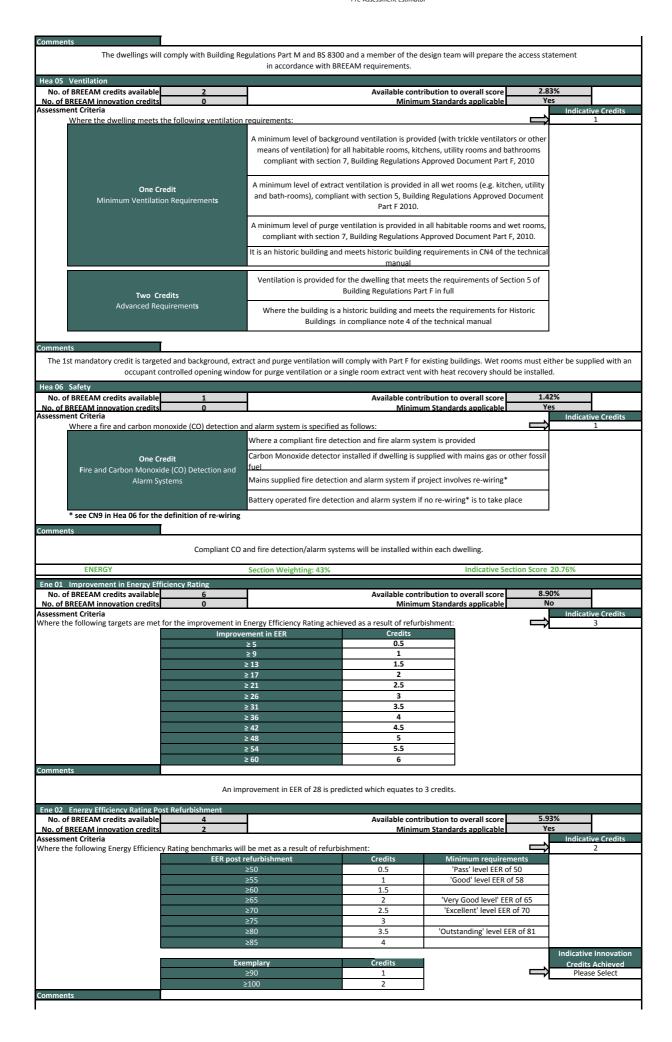


APPENDIX A - 96-98 SHOOT UP HILL BREEAM PRE ASSESSMENT

BREEAM UK Domestic Refurbishment 2014 Pre-A: This assessment and indicative BREEAM rating is not a forr		nt or rating and must	not	© BRE Global Ltd 2014 BREEAM® UK
be communicated as such. The score presented is indicativ				Minimum Standards
a simplified pre-formal BREEAM assessment and unverifie	d commitments given at an ear	ly stage in the design		ery Good Excellent Outstanding
process. Building na	ime		Ene 02	4 X X
Indicative building score		6	Hea 05 🗸 🗸	4 4 4
Indicative BREEAM ra	ting BREEAM Ver	y Good	Hea 06 🗸 🗸	4 4
Management Health & Wellbeing Energy	Water Materials W	/aste Pollution	Pol 03 🗳 🗳	✓ × ×
INNOVATION	Cti W-i-hti 100/		Mat 02 🖋 🧳	4 4 4
INNOVATION	Section Weighting: 10%		indicative Sect	ion Score: 0.00%
Comments MANAGEMENT	Section Weighting: 12%		Indicative Sect	ion Score: 8.73%
	occion vergiting 22/0			
Man 01 Home Users Guide No. of BREEAM credits available 3		Available c	ontribution to overall score	3.27%
No. of BREEAM innovation credits 0			mum Standards applicable:	No
Assessment Criteria				Indicative Credits
Where a Home Users Guide be provided to all dwellings, c	overing all issues set out in the	'Users Guide Content	s list', three credits may be awa	arded 3
	3 credits targeted for complian	nt Home User Guides	for residents	
Man 02 Responsible Construction Practices		Avallabla	ontribution to overall score:	2.18%
No. of BREEAM credits available 2 No. of BREEAM innovation credits 1		Available co	Minimum Standards	No
Assessment Criteria				Indicative Credits
Where a compliant considerate construction scheme will be Large Scale - project with more than 5 units	oe used, credits are awarded de		hieved as outlined below: Two Credits	<u>²</u>
Considerate Constructors Scheme	Score of 25-34 with a score	e of 5 in each section	Score of 35-39 with a score of section	7 in each
Alternative Compliant Scheme	Complia	nce	Beyond Compliance	
Small Scale - project with 5 units or fewer	One Cre	dit	Two Credits	
Considerate Constructors Scheme	Score of 25-34 with a score	e of 5 in each section	Score of 35-39 with a score of section	7 in each
Alternative Compliant Scheme	Complia	nce	Beyond Compliance	
Checklist A-3 Exemplary Credit	50% of the option	onal items	80% of the optional ite	ms Indicative Innovation
Considerate Constructors Scheme	Score of 40 or more with section			Credits Achieved Please Select
Alternative Compliant Scheme	Exemplary Level	Compliance		
Checklist A-3*	All Items (Optional	& Mandatory)	* Small Scale Project Only	
Comments				
Constructors Sch	ed which requires the main con eme and achieve a score of 35-			
Man 03 Construction Site Impacts No. of BREEAM credits available 1		Auglield	ontribution to over-!!	1.09%
No. of BREEAM innovation credits 0			ontribution to overall score imum Standards applicable	No
Assessment Criteria				Indicative Credits
Where evidence demonstrate that site impacts will be mo	nito <u>red, as detailed below:</u>	0	lts.	1
Large Scale	Where there is evidence t	One Cred to demonstrate that 2 are comple	or more of the sections in Che	cklist A-4
Small Scale	Where there is evidence t		or more of the sections in Che	cklist A-5
	Sections of Checkli	st		
Large Scale - Checklis			nall Scale - Checklist A-5	
Monitor, report and set targets for CO2 produc	tion of energy use arising from	set objectives for re	educing CO2 production from e	energy use
site activities Monitor, report and set targets for water co	nsumntion arising from site	ar	ising from site activities	
activities		Set objectives fo	or reducing water use arising fro activities	om site
A main contractor with an environme		Main contracto	r environmental materials state	ement
•		80% of site timbe	er is reclaimed, re-used or resp	onsibly
80% of site timber is reclaimed, re-used Same definition of small and large scale as in M			sourced	
Comments				
2 credits targeted which require	s the Principal Contractor to co	omplying with at least	two of the items in BREEAM ch	necklist A-5.
Man 04 Security No. of BREEAM credits available 2		Available co	ontribution to overall score:	2.18%
No. of BREEAM innovation credits 0			mum Standards applicable:	No
Assessment Criteria Where the following requirements will be met:				Indicative Credits 1
One Credit Secure windows and doors	External doors and acce	ssible windows meet certified	minimum standards and appro	

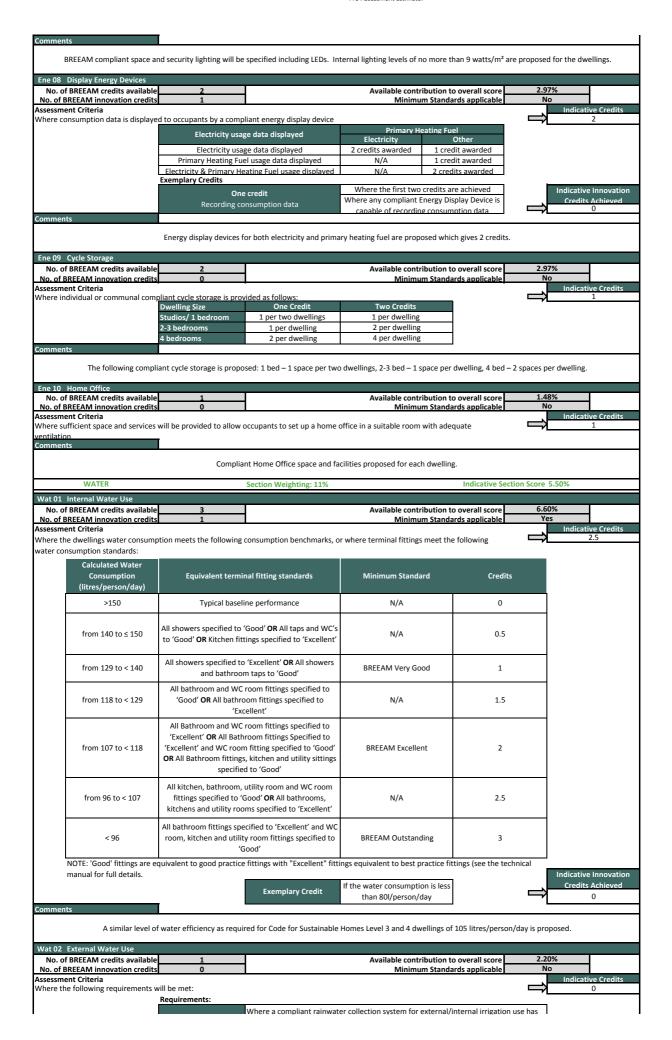
Principles and guidance of Secured by Design Section 2 are complied with Two Credits A suitably qualified security consultant is consulted at the design stage and their Secured by design recommendations are incorporated into the refurbishment 1st credit only targeted for compliant doors and windows. Potential for 2nd credit for Secured by Design Section 2 compliance plus design input from qualified security consultan No. of BREEAM credits availab Available contribution to overall score No. of BREEAM innovation credits Minimum Standards applicable Assessment Criteria Where the following requirements will be met Site survey carried out to determine presence of ecological features One Credit Statutory Nature Conservation Organisation notified of protected species Protecting Ecological Features Features of ecological value protected during refurbishment works dits Achieved A suitably qualified ecologist recommends features to enhance ecology of the site **Exemplary Credit** adopts all general ecological recommendations **Ecological enhancement** adopts 30% of additional recommendations An ecological survey of the site will be undertaken to determine if there any features of ecological value are present. The existing mature trees on site will be protected during the works. Man 06 Project Management No. of BREEAM credits available Available contribution to overall score 2.18% No. of BREEAM innovation credits
Assessment Criteria Minimum Standards applicable e Credits Where the following requirements will be met Where all of the project team are involved in the project decision making Small Scale - the project manager assigns individual and shared responsibilities amongst the project team including all trades on site One Credit Large Scale - the project manager assigns individual and shared responsibilities across the following key design and refurbishment stages: i. Planning and Building control notification ii. Design iii. Refurbishment iv. Commissioning and handover v. Occupation Large Scale projects: more than five units and more than Small Scale projects: five units or fewer and less than £100k £100k Handover meeting arranged 2 or more of the following committed to: - A site inspection within 3 months of occupation One Credit - Conduct post occupancy interviews with building occupants or a survey via phone or posted information within 3 months of occupation Handover and Aftercare - 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 Indicative Innovation Credits Achieved **Exemplary Credits** Where A BREEAM Accredited Professional has been appointed to oversee key stages **One Exemplary Credit** within the project. OR Where a BREEAM Domestic Refurbishment Assessor has been appointed at an early Early Design Input stage of the project, prior to the production of a refurbishment specification Where Thermographic surveying and Airtightness testing have been carried out at both One Exemplary Credit pre and post refurbishment stages Thermographic Surveying and Airtightness Testing Where an improved air tightness target has been set at design stage and testing demonstrates that this has been achieved post refurbishment Not targeted. **HEALTH & WELLBEING** Hea 01 Daylighting No. of BREEAM credits availab Available contribution to overall score No. of BREEAM innovation credits Minimum Standards applicable tive Credits Where the refurbishment results in a neutral impact on daylighting or where minimum daylighting standards are met, up to two credits may be awarded as follows: For Existing Dwellings and Change of Use Projects First Credit The refurbishment results in a neutral impact on the dwellings daylighting levels in the Maintaining Good Daylighting kitchen, living 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 Maintaining Good Daylighting dining room or study of neighbouring properties For All Properties



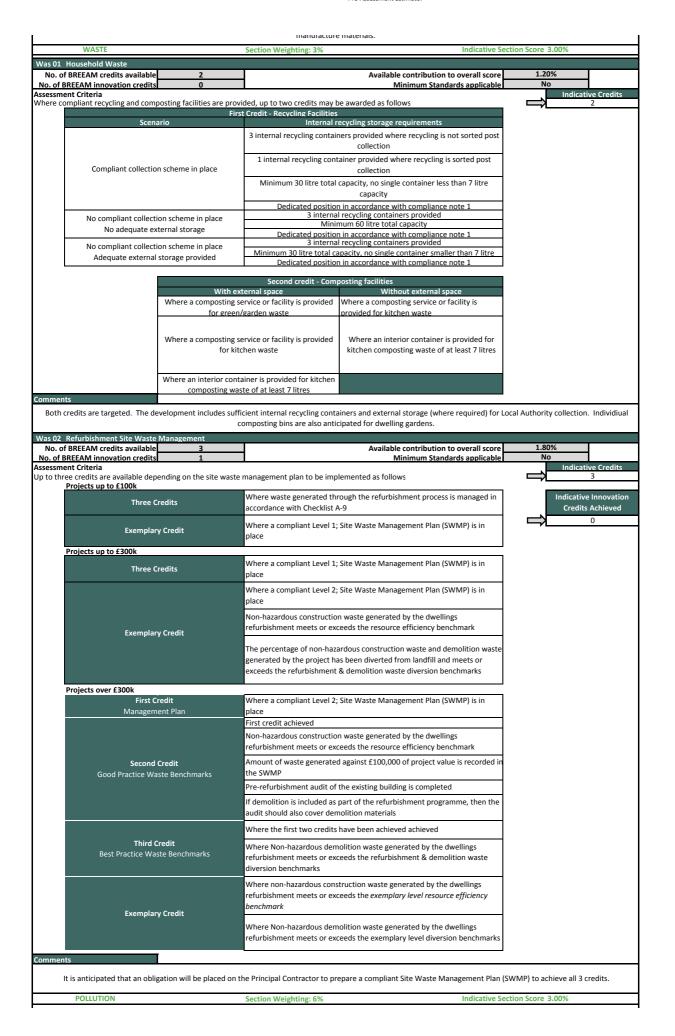


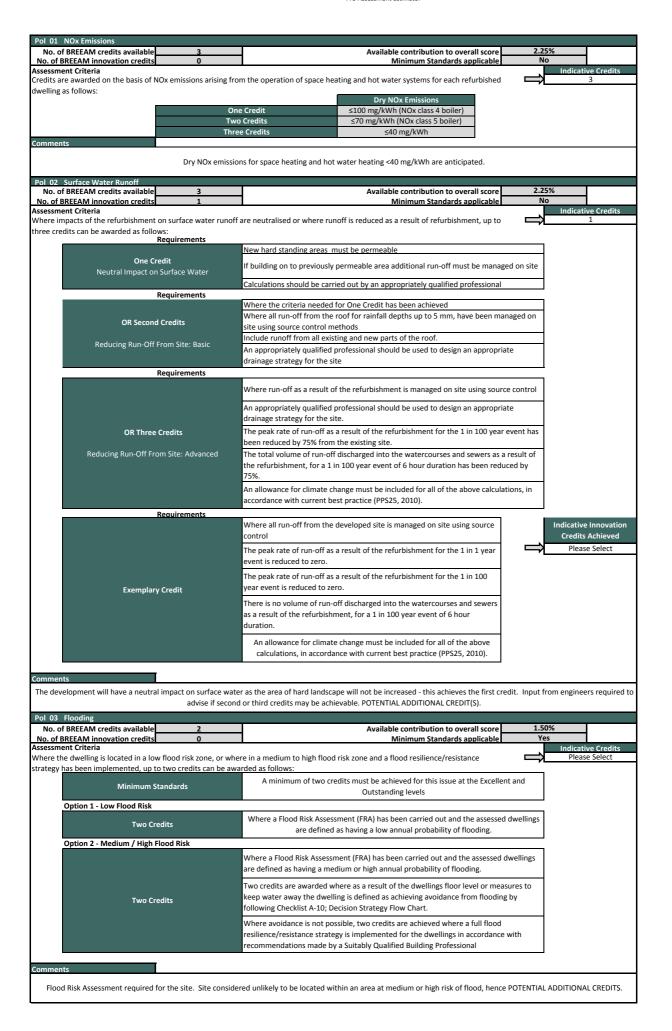
AN EER of 67 is predicted for the proposed dwellings, equating to 2 credits which is meet the minimum mandatory standard for Very Good. Ene 03 Primary energy demand No. of BREEAM credits available Available contribution to overall score 10.38% No. of BREEAM innovation credits Minimum Standards applicable Where the following Primary Energy Demand benchmarks will be met as a result of refurbishment:

Primary Energy Demand Post Refurbishment ≤ 400 0.5 ≤ 370 ≤ 340 1.5 < 300 ≤ 240 ≤ 220 4.5 ≤ 180 ≤ 160 ≤ 140 6.5 The proposed dwellings have a predicted primary energy demand of 183.47 kWh/m²/year which equates to 5 credits. No. of BREEAM credits available Available contribution to overall score No. of BREEAM innovation credits Minimum Standards applicable Indicative Credits Where the dwelling will meet the following % contribution from renewables and primary energy demand targets as a result of refurbishment **Dwelling Type Primary Energy Demand** Detached ≥10% Semi-Detached ≥20% ≤ 250 kWh/m²/year End of Terrace ≥10% ≥20% >10% >20% Low Rise Flat ≥10% >20% ≤ 220 kWh/m²/year ≥10% gh Rise Flat ≥10% ≥15% Renewable energy technology not proposed. Ene 05 Energy Labelled White Go 2.97% No. of BREEAM credits available Available contribution to overall score No. of BREEAM innovation credits Minimum Standards applicable Assessment Criteria Where Energy Efficiency White goods are to be provided as follows: First Credit Appliance provided Appliance not to be provided EU Energy Efficiency Labelling Scheme A+ Rating under EU Energy Efficiency Labelling Fridges, Freezers and Fridge-Freezers Information Leaflet provided to all Scheme dwellings Second Credit Appliance not to be provided Washing Machine A++ under EU Energy Efficiency Labelling Scheme Washing Machines and Dishwashers AND Second credit not achieved Dishwasher A+ uner EU Energy Efficiency Labelling Scheme EU Energy Efficiency Labelling Scheme Appliances specified with A Rating under EU Washer-Dryers and Tumble Dryers Information Leaflet provided to all Energy Efficiency Labelling Scheme dwellings Energy Saving Trust recommended white goods likely be provided plus information on the EU Energy Efficiency Labelling scheme. No. of BREEAM credits available Available contribution to overall score No. of BREEAM innovation credits Minimum Standards applicable Assessment Criteria Where adequate, secure internal or external space with posts and footings or fixings is provided with the following 1 Credit 3+ 6m+ Compliant drying facilities proposed for all dwellings e.g. retractable lines above baths assuming ventilation complies with Building Regulations Part F. No. of BREEAM credits available Available contribution to overall score 2.97% No. of BREEAM innovation credits Minimum Standards applicabl Assessment Criteria Where energy efficient internal and external lighting is provided as follows: Energy Efficient Space Lighting of more than 45 lumens per circuit watt and Energy Efficient Security Lighting OR Where Energy Efficient Space Lighting is provided ONLY Internal Lighting - 1 Maximum average wattage across the total floor area of the dwelling of 9 watts/m2



Available contribution to overall score appropriate water meter for measuring usage of mains potable water meter has been provided to available; and proposed. We of SI Water Meter No. of BREEAM credits available: 1	Mare dwellings have no individual or communal garden space. Rainwater harvesting is not proposed. Wat OS Water Meter No. of BREEAM credits available Only statutory water meters are anticipated for each dwelling which are not fully compliant with BREEAM requirements. Only statutory water meters are anticipated for each dwelling which are not fully compliant with BREEAM requirements. Only statutory water meters are anticipated for each dwelling which are not fully compliant with BREEAM requirements. MATERIALS Section Weighting BN Material Interview of Metersials No. of BREEAM contracts available of the Section Weighting BN Material Interview of Metersials No. of BREEAM contracts available of the Section Weighting BN Material Interview of Metersials No. of BREEAM contracts available of the Section Weighting BN Material Interview of Metersials No. of BREEAM contracts available of the Section Weighting BN Material Interview of Metersials No. of BREEAM contracts available of the Section Weighting BN Material Interview of Metersials No. of BREEAM contracts available of the Section Weighting BN Material Interview of Metersials No. of BREEAM contracts available of the Section Weighting BN A 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		One Credit	been provided to dwellings	5.		
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Where ≥ 80% of the new thermal insulation used in the building elements is responsibly sourced.	4 Credits	performance credits for each operation of the comments of the comments of the credits are responsibly sourced. The credits ach material sourced as detailed be ach	unt of existing structure sterials 15 0 sourced, up to 12 cree eved are dependent o ow: The principal contracts sustainable procureme OR Where the plant of the principal contracts where the plant of the principal contracts sustainable procureme OR where the plant of the principal contracts where the plant of the principal contracts are the plant of the principal contracts and the plant of the principal contracts are the plant of	eved when achieving the mining External walls (inc Upper an W Upper and W Upp	mum U-values shown below lements Roof Pernal walls Available contrib Minimum What of new materials for an in based upon the responsib 3 BREEAM credits) Oject in accordance with a company (up to 3 BREEAM upporting evidence) % of available points 245% 245% 245% 245% 29% Papared to 12 in the 2012 vie a suitable evidence. Available contrib Minimum Mi	Minimum U-Value 0.11 0.15 0.15 1.4 of A+. U values are currently unknown to overall score in Standards applicable element are ole sourcing tier level of Will all ne be source Gowards s achieved version. The Principle Contractor when Standards applicable element are ole source forwards s achieved ution to overall score in Standards applicable element are ole source forwards the Green Guide to	w timber used in the pid in accordance with the





BREEAM UK Domestic Refurbishment 2014 Pre-Assessment Estimator v0.1: Results Summary

Building name Indicative Building Score Indicative Building Rating

55.40% BREEAM Very Good

Section 5

Weighting

Indicative Credits Achieved

Credits Available

Issue

12%

Man 01 Man 02 Man 03 Man 04 Man 05

Management

v0.1: Results Summary This assessment rating and must potential perfor commitments g
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ection Score			2	Minimum Standards	S	
		Pass	Good	Very Good	Excellent	Outstandin
907	Ene 02	>	>	>	×	×
%67.0	Wat 01	>	>	>	>	×
	Неа 05	>	>	>	>	>
	Неа 06	>	>	>	>	>
9.92%	Pol 03	>	>	>	×	×
	Mat 02	>	>	>	>	>

17%

Hea 01 Hea 02 Hea 03 Hea 04 Hea 05

Health and Wellbeing

				/05F OC /0CF					
3	2	0	0	2	Н	2	2	1	П
9	4	7	2	2	1	7	2	2	1
Ene 01	Ene 02	Ene 03	Ene 04	Ene 05	Eller By Ene 06	Ene 07	Ene 08	Ene 09	Ene 10

	2.50%		
	11%		
2.5	0	0	
Э	⊣	1	
Wat 01	Wat 02	Wat 03	
	Water		

	Mat 01	25	10		
Materials	Mat 02	15	6	%8	4.50%
	Mat 03	∞	∞		

%00 c	3.00%		3.00%	
/00	370		%9	
2	3	3	1	0
2	3	3	က	2
Was 01	Was 02	Pol 01	Pol 02	Pol 02
14/2540	Maste		Pollution	

0.00%	
N/A	
0	
10	
Innovation	

	Pe	Percentage of Category Score Attained	ategory Scor	e Attained		
	%0	20%	40% -	%09	%08	100%
Management					73%	
Health & Wellbeing	Ш			28%		
Energy			48%	%		
Water			ŭ	20%		
Materials	Ц	П	П	%95		
Waste	Ш		П	Л		100%
Pollution	Ш	П	I.O.	20%		