

# 25 Old Gloucester Street, London WC1N 3AF

### BREEAM Domestic Refurbishment Pre-Assessment Report

June 2017

**CUTTING THE COST OF CARBON** 

[page left intentionally blank]

# 1 Issue Register

Revision	Reason for Issue	Date of Issue	Issued By
1.0	For information	06/06/17	J Simpson CEng MCIBSE

### 2 Contents

1	Issue Register	3
2	Contents	4
3	Introduction	5
3.1	The Proposed Development	5
3.2	Introduction to BREEAM Domestic Refurbishment	5
4	Preliminary BREEAM Assessment	6
5	Results	7

#### 3 Introduction

#### 3.1 The Proposed Development

The Proposed Development comprises the refurbishment and extension of the existing commercial space at basement ground and first floor, with the conversion and extension of the existing building at first, second and third floors to create 3 new residential apartments, and the construction of 3 new build apartments at first, second and third floor.

This BREEAM Domestic Refurbishment pre-assessment considers the 3 dwellings created by a material change of use. The Code for Sustainable Homes assessment scheme has been withdrawn, and therefore the 3 new build apartments will not be assessed.

This report provides full details of the sustainability measures to be incorporated into the scheme, and the BREEAM target that could be achieved. The current score shows a score of 68.98%, and meets the standard for a 'Very Good' rating in compliance with the Planning policy requirements.

#### 3.2 Introduction to BREEAM Domestic Refurbishment

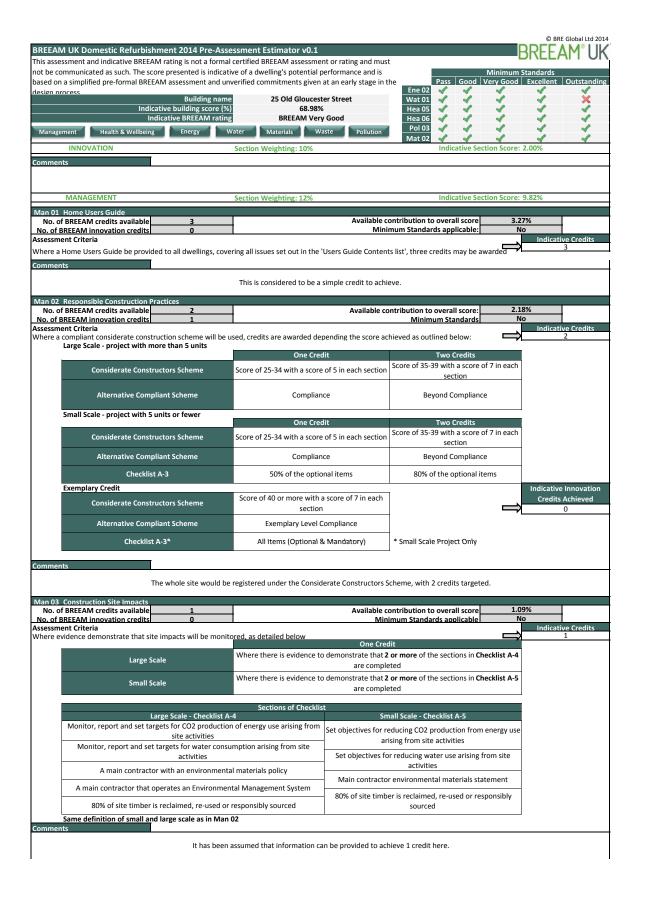
BREEAM Domestic Refurbishment is a performance based assessment method and certification scheme for domestic buildings undergoing refurbishment. The primary aim of BREEAM Domestic Refurbishment is to improve the environmental performance of existing dwellings in a robust and cost effective manner. This is achieved through integration and use of the scheme by clients and their project teams at key stages in the refurbishment process. This enables the client, through personnel qualified and licensed under the BREEAM Domestic Refurbishment Scheme and the BRE Global certification process, to measure, evaluate and reflect the performance of their refurbishment project against best practice in an independent and robust manner. This performance is quantified by a number of individual measures and associated criteria stretching across a range of environmental issues as described in the following table, which is ultimately expressed as a single certified BREEAM rating, i.e. the label.

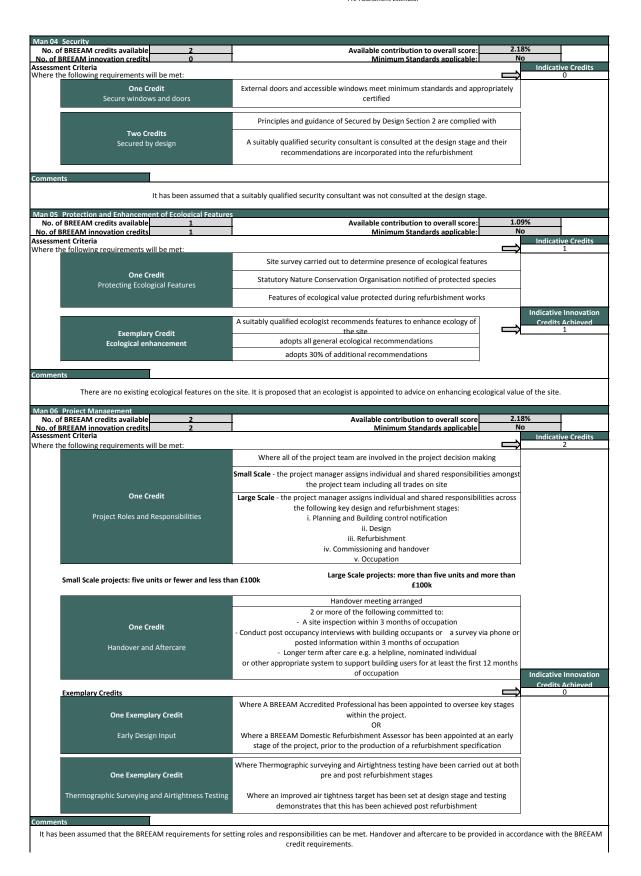
Credits are available for each issue meeting the specified levels of performance. The number of credits available in each category does not necessarily reflect the relative importance of the issues being assessed. Before the final score is calculated each of the scores in the eight category areas has a weighting factor applied before the final score is calculated.

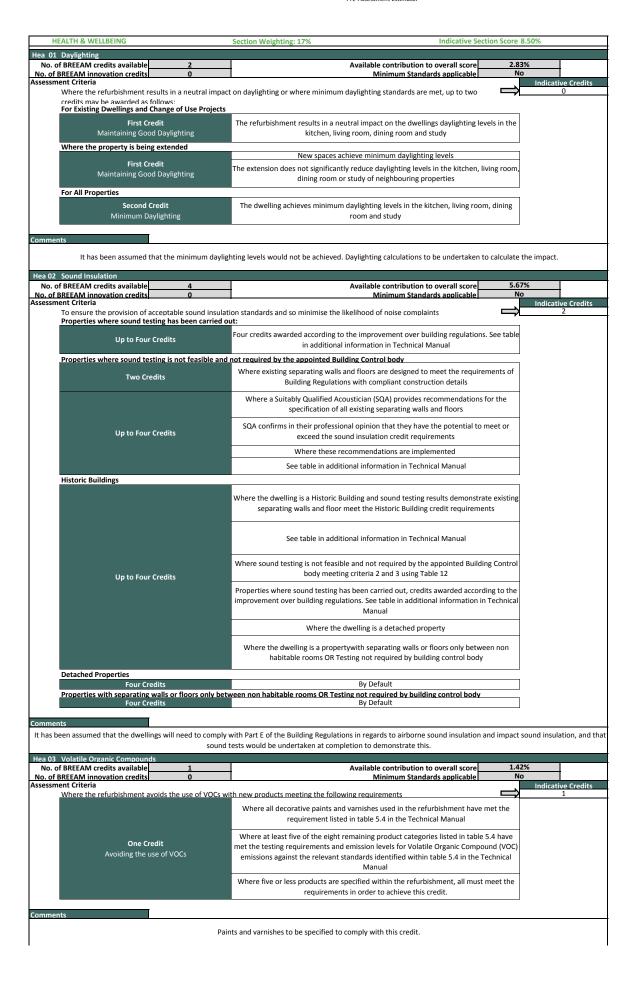
The number of credits attained is interpreted in the form of an overall rating of 'OUTSTANDING', 'EXCELLENT', 'VERY GOOD', 'GOOD' AND 'PASS'. The final rating is determined by the assessor and quality assured and certified by BRE.

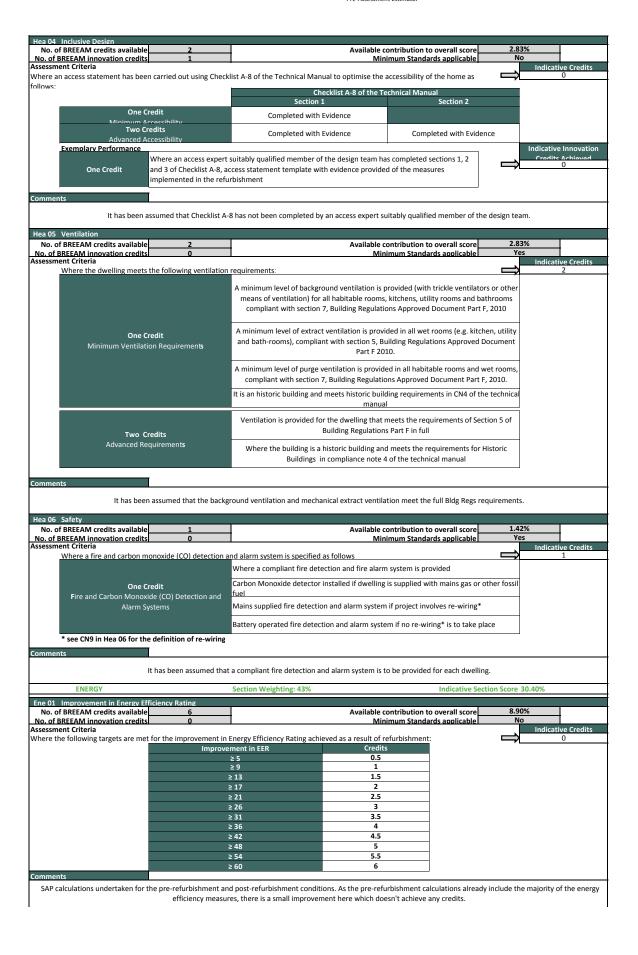
Rating	Requirements (equal to or greater than)
Pass	30 %
Good	45 %
Very Good	55 %
Excellent	70 %
Outstanding	85 %

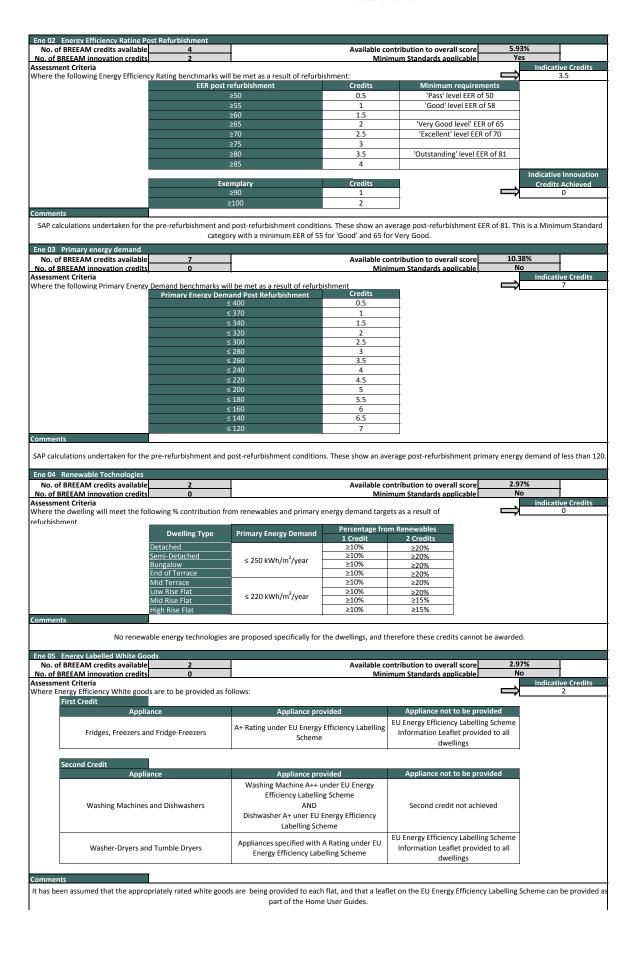
# 4 Preliminary BREEAM Assessment



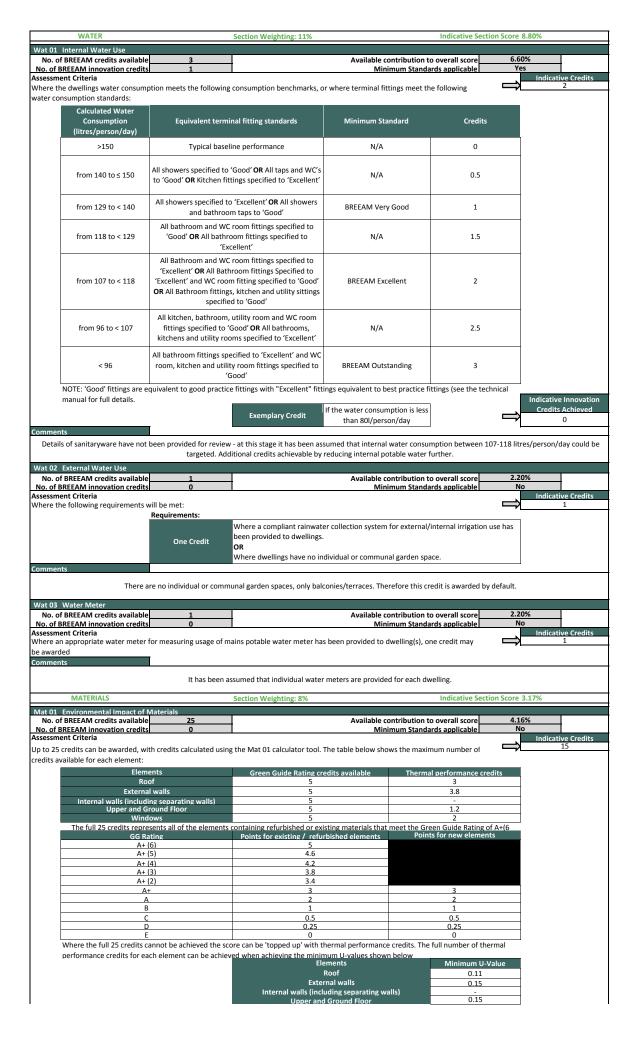




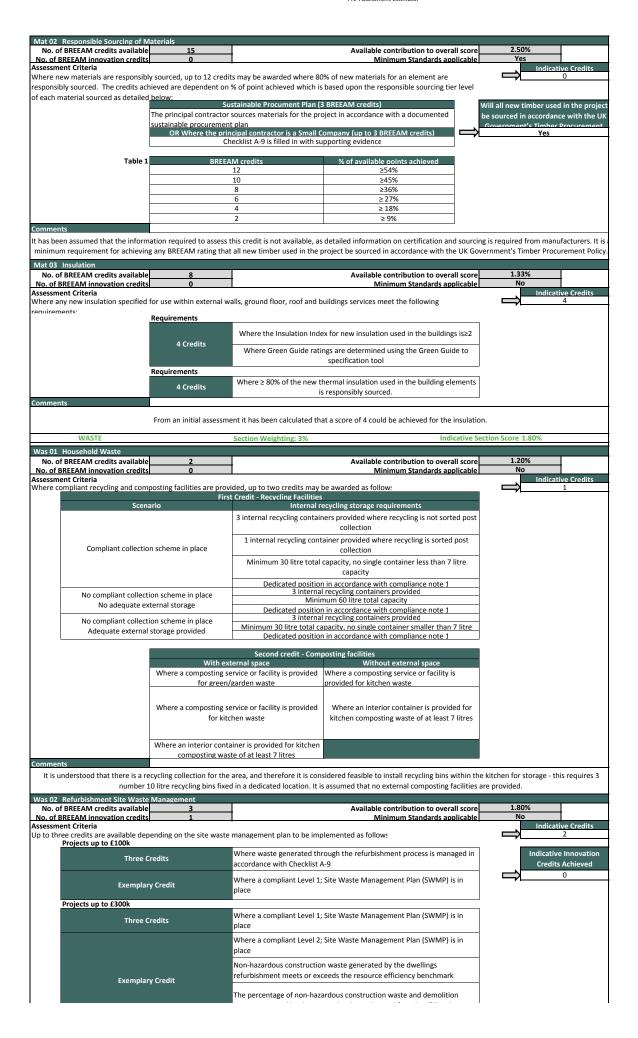




Ene 06 Drying Space								
No. of BREEAM credits available			Available contr	ibution to overall score	1.48%			
No. of BREEAM innovation credits	0		Minimu	m Standards applicable	No			
Assessment Criteria Indicative Credits								
Where adequate, secure internal or external space with posts and footings or fixings is provided with the following								
		1 Credit	Desired lines as and	and a				
		Number of bedrooms	Drying line requir 4m+	ea				
		1-2 3+	6m+					
Comments		3+	OIIIT					
Comments								
Internal drying lines a	re to be fitted within the	bathrooms of each flat wth	a minimum of 4m drying	line. These could be fold	able or retractable units.			
Ene 07 Lighting					2.221			
No. of BREEAM credits available	2			ibution to overall score	2.97% No			
No. of BREEAM innovation credits Assessment Criteria	0		Minimu	m Standards applicable	Indicative Credits			
Where energy efficient internal and	external lighting is provid	ed as follows			2			
There energy emolent internal and	External Lighting - 1	ca as 10110 M3						
		thting of more than 45 lume	ns per circuit watt and E	nergy Efficient				
	Security Lighting OR							
1	Where Energy Efficient S	pace Lighting is provided ON	ILY					
	Internal Lighting - 1							
	Maximum average watta	ge across the total floor are	a of the dwelling of 9 wa	itts/m2				
Comments	-fficient links			alaman maka at 197				
					uirements. It is understood that LED			
lighting is to be used throughou	it the flats, and therefore	the second credit should als	o be achieved - addition	al information on the ligh	iting will be required for the formal			
Ene 08 Display Energy Devices		cuhmic	cion					
No. of BREEAM credits available	2		Available contr	ibution to overall score	2.97%			
No. of BREEAM innovation credits	1			m Standards applicable	No			
Assessment Criteria					Indicative Credits			
Where consumption data is displaye	d to occupants by a comp	liant energy display device			<u> </u>			
	Electricity usa	ge data displayed		eating Fuel				
			Electricity	Other				
		ge data displayed	2 credits awarded	1 credit awarded				
Primary Heating Fue			N/A	1 credit awarded				
	Electricity & Primary Heating Fuel usage displayed N/A 2 credits awarded  Exemplary Credits			2 Credits awarded				
		credit	Where the first two	credits are achieved	Indicative Innovation			
		nsumption data	Where any compliant E	nergy Display Device is	Credits Achieved			
	Recording Co	nsumption data		g consumption data	<u> </u>			
Comments								
Electricity and gas usage display d	levices to be provided wit	hin each flat to achieve 2 cr	edits - in addition these	should be capable of reco	ording consumption data to meet the			
		innovation credit	ts requirement.					
Ene 09 Cycle Storage								
No. of BREEAM credits available	2		Available contr	ibution to overall score	2.97%			
No. of BREEAM innovation credits	0			m Standards applicable	No			
Assessment Criteria					Indicative Credits			
Where individual or communal comp			- 0 lb		<u> </u>			
	Dwelling Size	One Credit	Two Credits					
1	Studios/ 1 bedroom	1 per two dwellings	1 per dwelling					
	2-3 bedrooms	1 per dwelling	2 per dwelling 4 per dwelling					
Comments	4 bedrooms	2 per dwelling	4 per uweriing					
A total of 6 communal cycle space					Domestic Refurbishment scheme this			
	equates to 2 cycle	spaces per apartment. This	currently achieves 2 cre	aits for the scheme.				
Ene 10 Home Office					1 100/			
No. of BREEAM credits available	1			ibution to overall score	1.48% No			
No. of BREEAM innovation credits 0 Minimum Standards applicable No Assessment Criteria Indicative Credits								
Where sufficient space and services will be provided to allow occupants to set up a home office in a suitable room with adequate								
ventilation		panta ta see ap a nome			,			
Comments								
Electrical layout drawings have not	been provided for the so	neme, so it is not possible to	fully review this. Howe	ver, it is understood that i	power sockets and BT points are to be			
		is assumed that this provision						

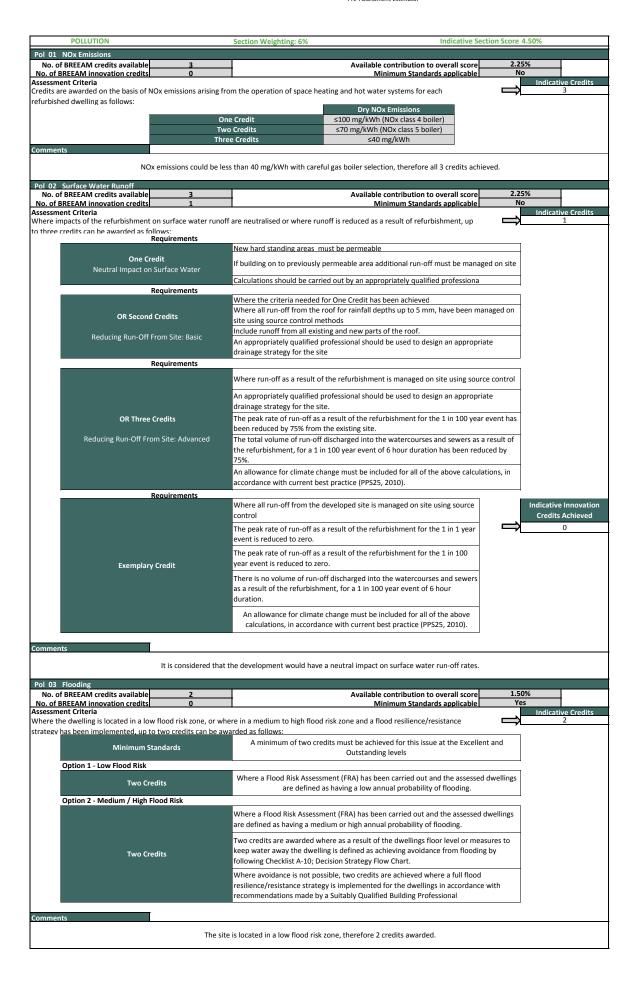


	Windows	1.4				
Comments						
From an initial assessment it has been calculated that a score of 15 could be achieved for the materials.						



	waste generated by the project has been diverted from landfill and meets
	or exceeds the refurbishment & demolition waste diversion benchmarks
ojects over £300k	
First Credit Management Plan	Where a compliant Level 2; Site Waste Management Plan (SWMP) is in place
	First credit achieved
	Non-hazardous construction waste generated by the dwellings refurbishment meets or exceeds the resource efficiency benchmark
Second Credit Good Practice Waste Benchmarks	Amount of waste generated against £100,000 of project value is recorded in the SWMP
	Pre-refurbishment audit of the existing building is completed
	If demolition is included as part of the refurbishment programme, then the audit should also cover demolition materials
	Where the first two credits have been achieved achieved
<b>Third Credit</b> Best Practice Waste Benchmarks	Where Non-hazardous demolition waste generated by the dwellings refurbishment meets or exceeds the refurbishment & demolition waste diversion benchmarks
Exemplary Credit	Where non-hazardous construction waste generated by the dwellings refurbishment meets or exceeds the <i>exemplary level resource efficiency benchmark</i>
Exemplal y Cleur	Where Non-hazardous demolition waste generated by the dwellings refurbishment meets or exceeds the exemplary level diversion benchmarks

It is considered to be feasible to provide a Level 2 Site Waste Management Plan for the scheme, which would achieve 1 credit. A design stage pre-refurbishment audit to be undertaken for the existing building, with non-hazardous construction waste to be monitored, to achieve 2 credits.



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

BREEAM® UK

Building name Indicative Building Score Indicative Building Rating

Innovation

10

2

N/A

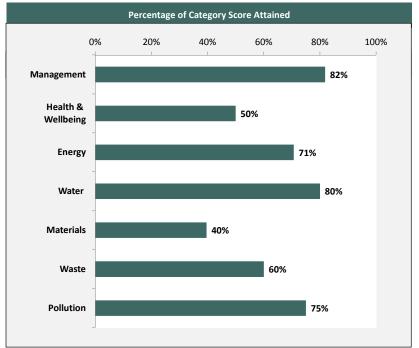
25 Old Gloucester Street 68.98% BREEAM Very Good

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.

		Credits	Indicative Credits		
	Issue	Available	Achieved	Weighting	Section Score
	Man 01	3	3		
	Man 02	2	2		
Management	Man 03	1	1	12%	9.82%
Wanagement	Man 04	2	0	12/0	3.02/0
	Man 05	1	1		
	Man 06	2	2		
			-		
	Hea 01	2	0		
	Hea 02	4	2		
Health and	Hea 03	1	1	17%	8.50%
Wellbeing	Hea 04	2	0		
	Hea 05	2	2		
	Hea 06	1	1		
		-	_		
	Ene 01	6	0		
	Ene 02	4	3.5	43%	
	Ene 03	7	7		
	Ene 04	2	0		30.40%
Energy	Ene 05	2	2		
- 0,	Ene 06	1	1		
	Ene 07	2	2		
	Ene 08	2	2		
	Ene 09	2	2		
	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	15	0	8%	3.17%
	Mat 03	8	4		
10/2242	Was 01	2	1	20/	1.000/
Waste	Was 02	3	2	3%	1.80%
	Pol 01	3	3		
Pollution	Pol 02	3	1	6% <b>4.50%</b>	4.50%
	Pol 02	2	2		

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



### 5 Results

The current score shows a score of 68.98%, and meets the standard for a 'Very Good' rating in compliance with the Planning policy requirements.