

BREEAM DOMESTIC REFURBISHMENT - 2014

THE ENVIRONMENTAL RATING FOR REFURBISHED HOMES

PRELIMINARY ASSESSMENT

INCLUDING ASSUMPTIONS AND BASIS FOR DATA

27 Montague St, WC1B 5BH

FOR The Bedford Estates

Issue Date: 22/02/2017

Version: First Issue, for Planning
BREEAM Registration: ongoing





INTRODUCTION

This document was commissioned by Marlene Martins of FT Architects, on behalf of The Bedford Estates and written by Julian Williams of Abba Energy Ltd. There are three units being assessed on this site.

This report reviews the current standing of this scheme, employing verbal and available design information. Sufficient evidence is not yet available to enable an Interim Stage assessment to be undertaken.

Following this report (and where issued by Abba Energy), it will be the project team's responsibility to ensure that the drawings and specifications follow and clearly state the requirements for the relevant BREEAM Domestic Refurbishment Issues. Information should then be submitted to the Assessor for the Final report to be made. Please note that without the evidence the assessor cannot award the credits. Reference should be made to the BREEAM Domestic Refurbishment Technical Guide.

Project name
Client
Assessment Type

27 Montague St, WC1B 5BH	
The Bedford Estates	Target Rating
Preliminary	Preliminary Rating Achieved

2014
Excellent
Excellent

PRELIMINARY ASSESSMENT

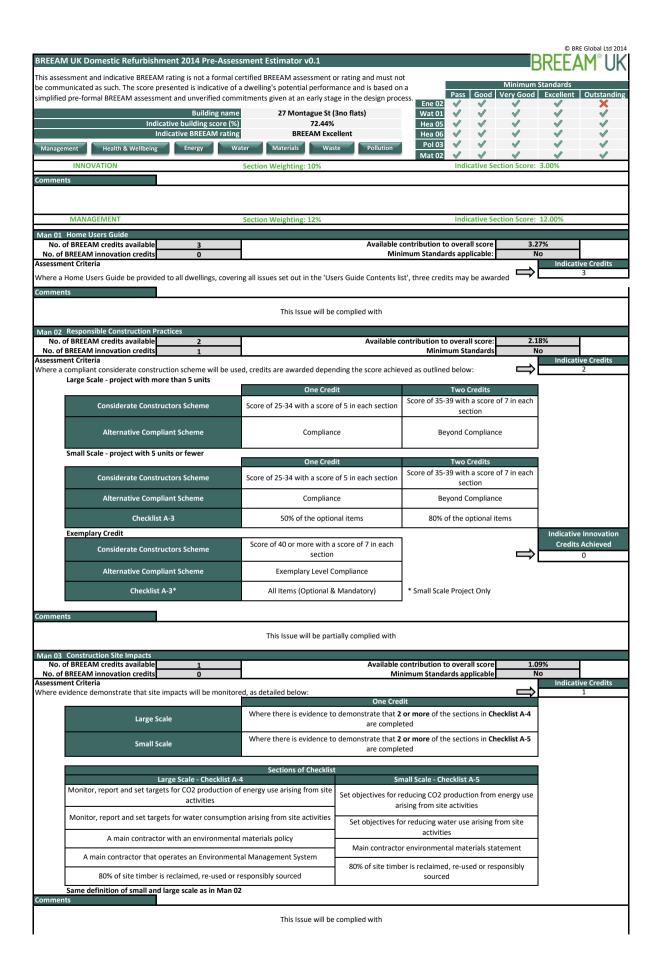
The report table on the following pages includes the basis of data input, sources and assumptions. Each issue is 'weighted' differently, to reflect considered importance, according to the following equivalent percentage scores per credit point: Management – (Man) 1.09%; Health & Wellbeing (Hea) – 1.42%; Energy (Ene) – 1.48%; Water (Wat) – 2.75%; Materials (Mat) – 0.18%; Waste (Was) – 0.60%; Pollution (Pol) – 0.75%; Innovation (Ino) – 1.00%. Where credits have been awarded, it is assumed that the criteria (detailed within the relevant version of the BREEAM Domestic Refurbishment Technical Guide) will be met.

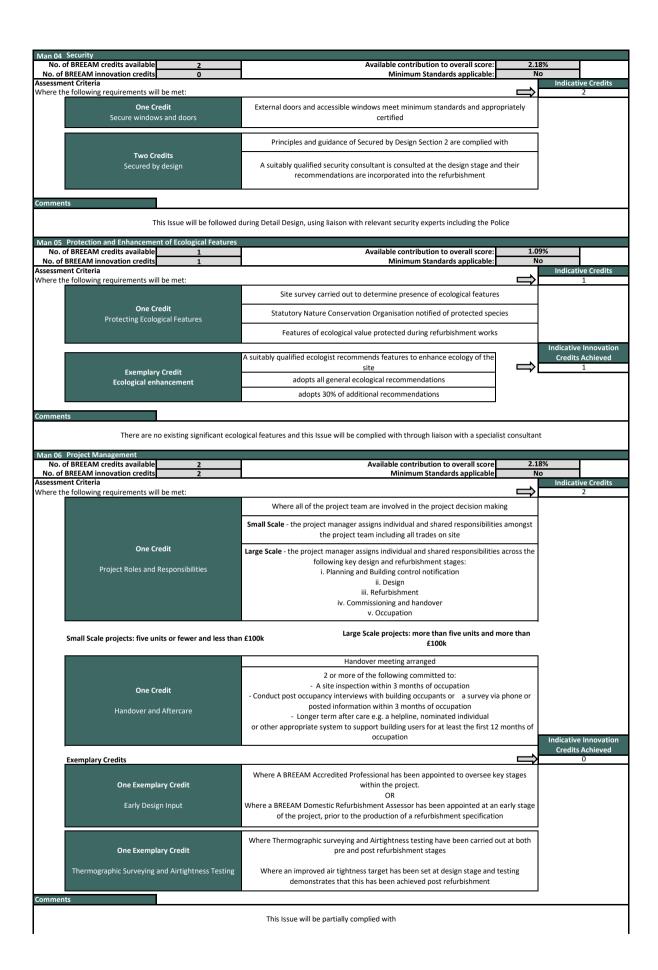
Please note – Architect = FT Architects [FT], Client = The Bedford Estates [BE], BREEAM Consultant = Abba Energy [AE].

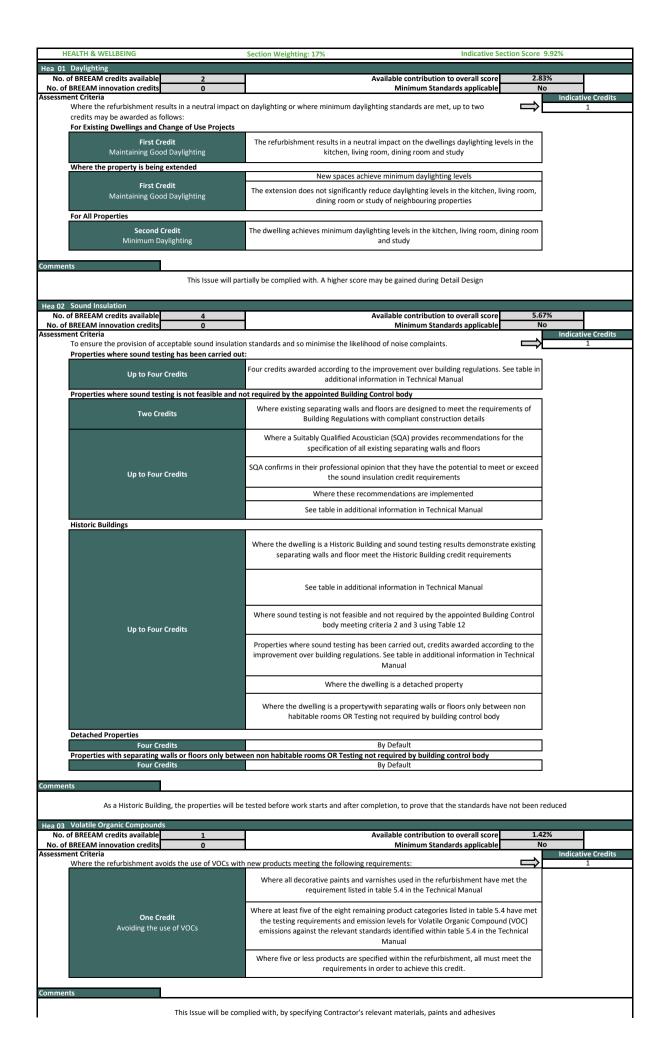
References to 'dwelling' mean a unit of accommodation, house or flat. $% \label{eq:commodation} % \label{eq:commodation}$

CATEGORY TARGETS FOR PLANNING

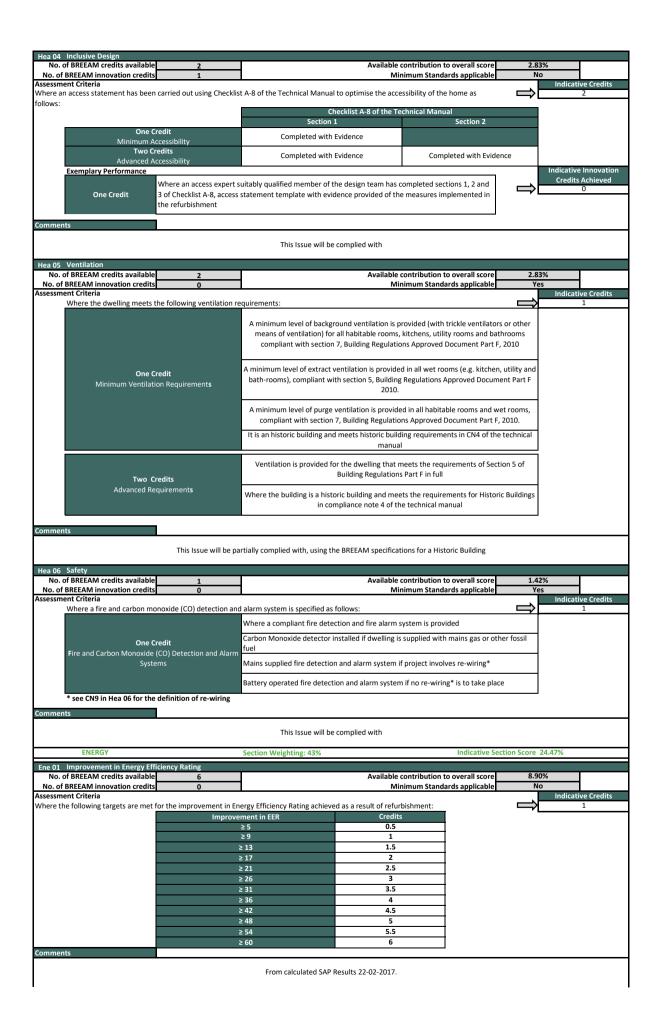
Energy - 60%	57%	TOTAL BDR TARGET	70.00%
Lifeigy - 00%	37%	PERCENTAGE REQUIRED	70.00%
Water - 60%	100%	INDICATIVE BDR PERCENTAGE	72.44%
water - 60%	100%	SCORE	72.44%
Materials - 40%	65%	ESTIMATED BDR RATING	Excellent

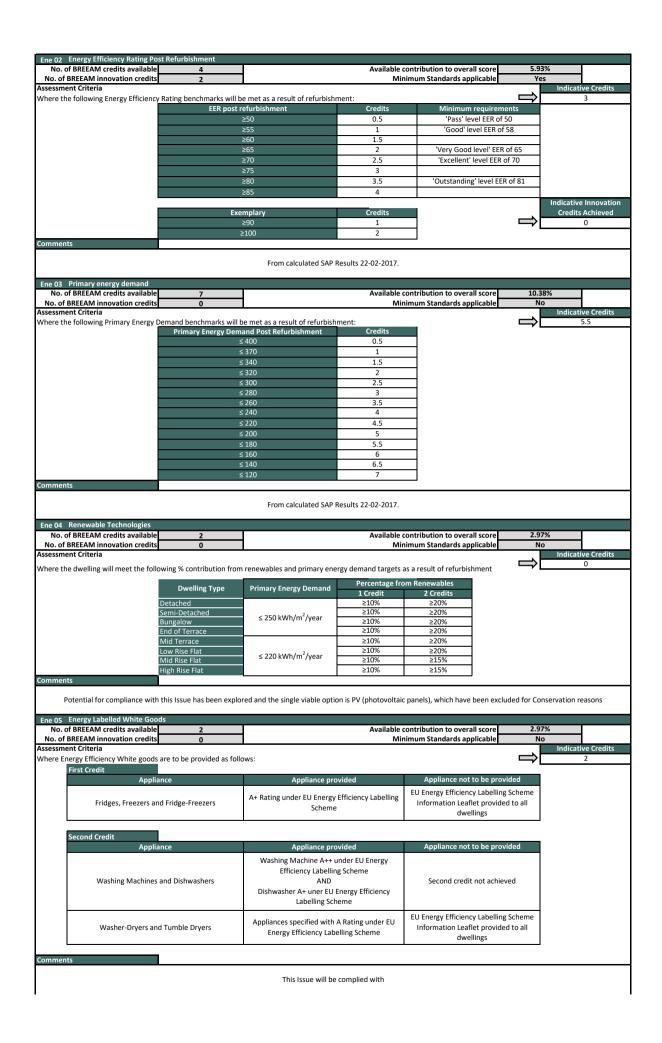


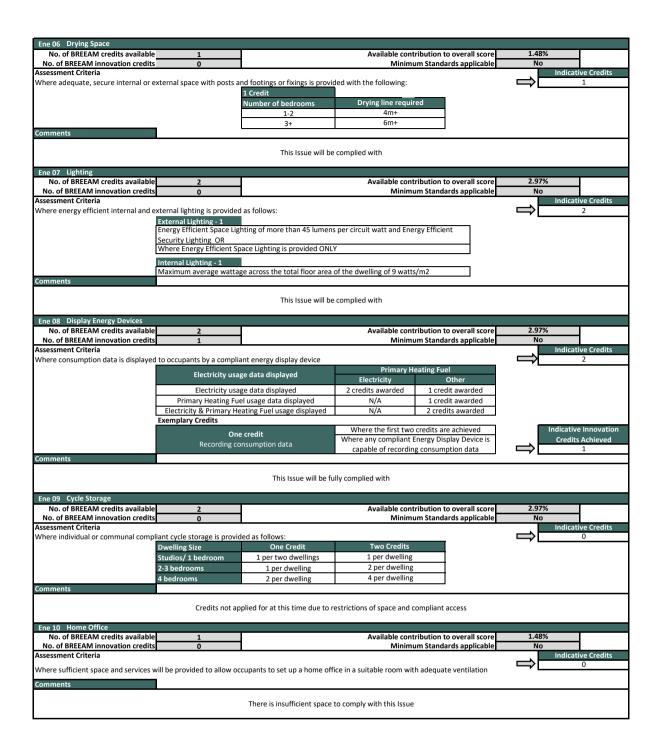




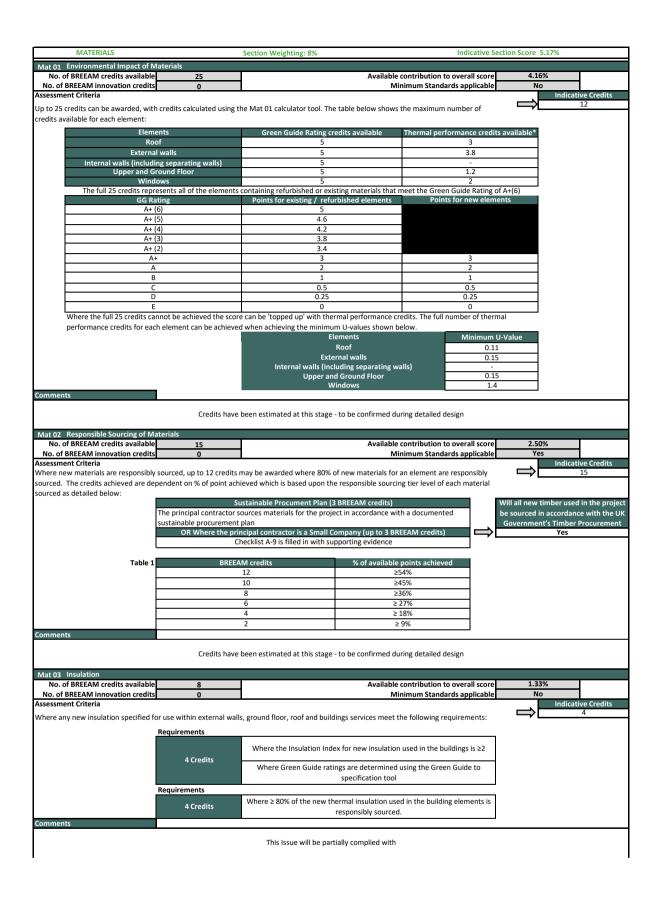
1

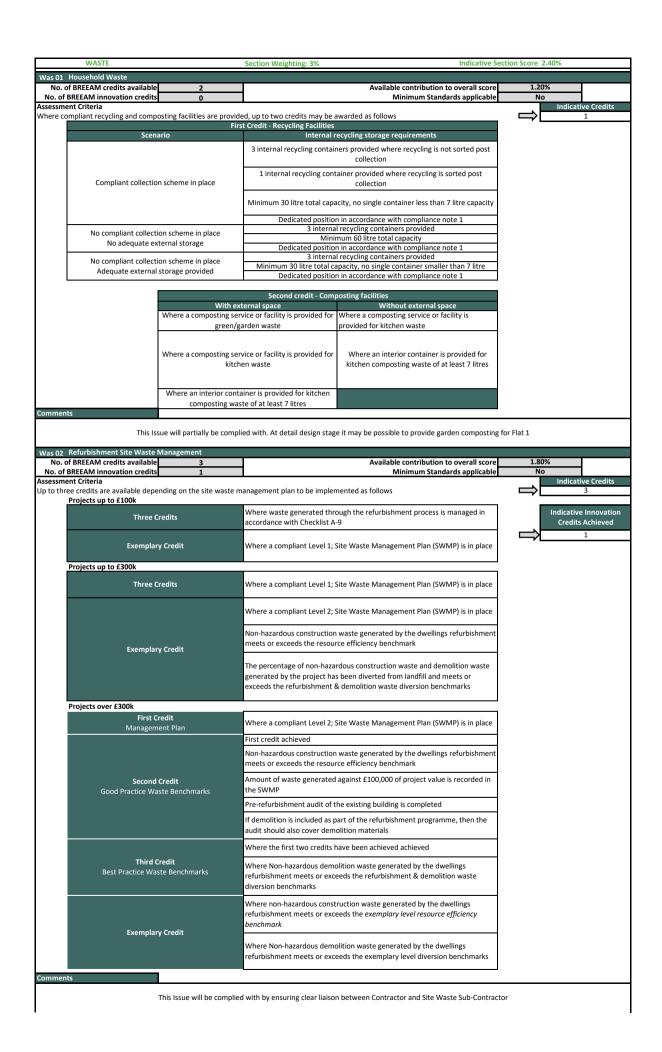


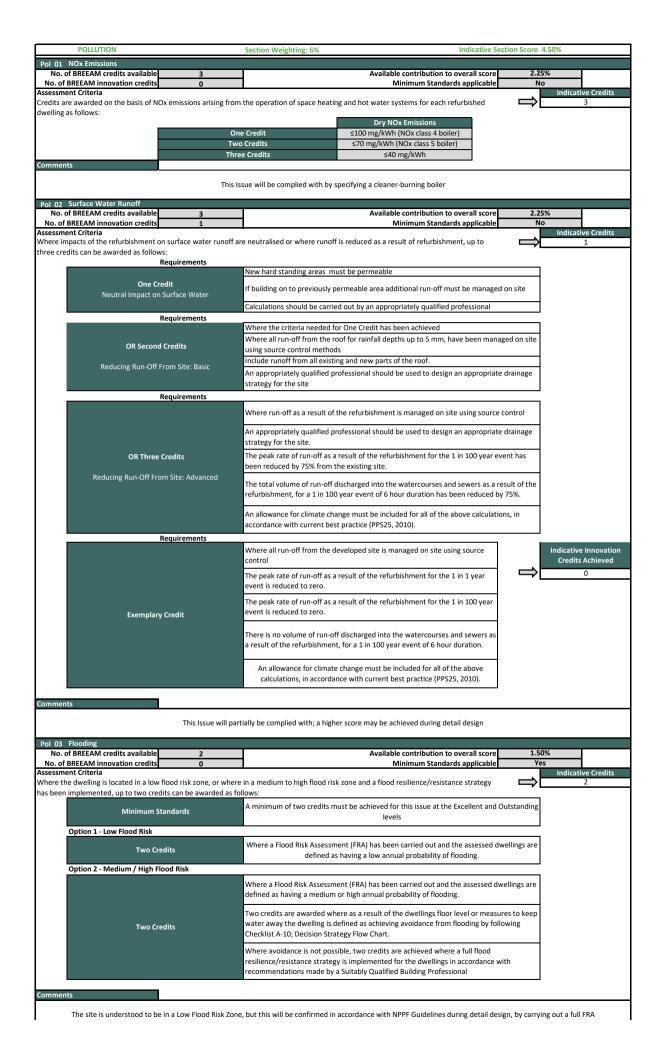




	WATER Section Weighting: 11% Indicative Section Score 11.00%							
Wat 01	Internal Water Use							
	f BREEAM credits available	3		Available contribution to	o overall score	6.60%		
	BREEAM innovation credits ont Criteria	1		Minimum Standa	rds applicable	Yes	ve Credits	
Where the		ion meets the following co	nsumption benchmarks, or w	where terminal fittings meet the fol	lowing water	⇒ Indicati	3	
	Calculated Water Consumption (litres/person/day)	Equivalent termin	al fitting standards	Minimum Standard	Credits			
ĺ	>150	Typical baselir	ne performance	N/A	0			
	from 140 to ≤ 150		Good' OR All taps and WC's ngs specified to 'Excellent'	N/A	0.5			
	from 129 to < 140	•	ccellent' OR All showers and aps to 'Good'	BREEAM Very Good	1			
	from 118 to < 129		n fittings specified to 'Good' s specified to 'Excellent'	N/A	1.5			
	from 107 to < 118	'Excellent' OR All Bathr 'Excellent' and WC room fi All Bathroom fittings, k	oom fittings specified to oom fittings Specified to tting specified to 'Good' OR itchen and utility sittings I to 'Good'	BREEAM Excellent	2			
-	from 96 to < 107	fittings specified to 'Good'	otility room and WC room OR All bathrooms, kitchens opecified to 'Excellent'	N/A	2.5			
-	< 96	room, kitchen and utility	cified to 'Excellent' and WC room fittings specified to good'	BREEAM Outstanding	3			
		uivalent to good practice fi	ttings with "Excellent" fitting	s equivalent to best practice fitting	s (see the technical manu			
,	for full details.	[Exemplary Credit	If the water consumption is less than 80l/person/day	_		E Innovation Achieved	
Comment	ts							
			This Issue will be	complied with				
	External Water Use							
	f BREEAM credits available BREEAM innovation credits	0		Available contribution to Minimum Standa		2.20% No		
Assessme	nt Criteria			turidu			ve Credits	
Where the	e following requirements wi	Il be met: Requirements:				→	1	
Where a compliant rainwater collection system for external/internal irrigation use has been provided to dwellings. OR Where dwellings have no individual or communal garden space.								
Comment	ts							
	This Issue will be comp	lied with by Flat 1, using ex	ternal collection and re-use,	whilst Flats 2 and 3 will comply by	default since they have n	o external space		
Wat 03_	Water Meter							
No. o	f BREEAM credits available	1		Available contribution to		2.20% No		
	BREEAM innovation credits ent Criteria	0		Minimum Standa	i us applicable		ve Credits	
awarded		or measuring usage of main	s potable water meter has be	een provided to dwelling(s), one cr	edit may be	—	1	
Comment	ts							
			This Issue will be comp	lied with by all units				









Building name 27 Montague St (3no flats)
Indicative Building Score 72.44%
Indicative Building Rating BREEAM Excellent

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.

	Issue	Credits Available	Indicative Credits Achieved	Weighting	Section Score
	Man 01	3	3		
	Man 02	2	2	12%	12.00%
Managament	Man 03	1	1		
Management	Man 04	2	2		
	Man 05	1	1		
	Man 06	2	2		

	Hea 01	2	1		
	Hea 02	4	1		
Health and	Hea 03	1	1	170/	9.92%
Wellbeing	Hea 04	2	2	17%	9.92%
	Hea 05	2	1		
	Hea 06	1	1		

Ene 01 6 1 Ene 02 4 3	
Ene 03 7 5.5	
Ene 04 2 0	
Energy Ene 05 2 2 43%	24.47%
Ene 06 1 1	
Ene 07 2 2	
Ene 08 2 2	
Ene 09 2 0	
Ene 10 1 0	

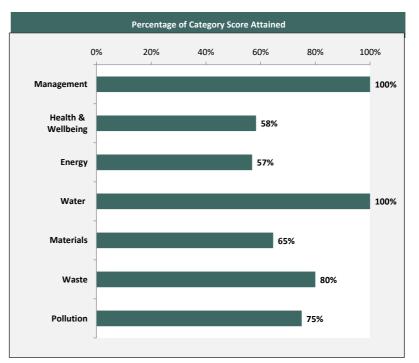
	Wat 01	3	3		
Water	Wat 02	1	1	11%	11.00%
	Wat 03	1	1		

Mat 01 25 12 Mat 02 15 15 8% 5.17% Mat 03 8 4		Mat 01	25	12		
Mat 03 8 4	Materials	Mat 02	15	15	8%	5.17%
		Mat 03	8	4		

	D-1.04	1	1				
waste	Was 02	3	3	3/0	2.40%		
Waste	Was 01	2	1	3%	2.40%		

Innovation		10	3	N/A	3.00%
	Pol 02	2	2		
Pollution	Pol 02	3	1	6%	4.50%
	10101	3	3		

	Minimum Standards				
	Pass	Good	Very Good	Excellent	Outstanding
Ene 02	✓	\checkmark	✓	✓	×
Wat 01	~	~	~	✓	~
Hea 05	~	✓	\checkmark	\checkmark	✓
Hea 06	✓	✓	✓	✓	✓
Pol 03	~	✓	~	✓	✓
Mat 02	✓	✓	✓	✓	✓



CONCLUSION

BREEAM Domestic Refurbishment (BDR) assesses the environmental quality of a development by considering the broad concerns of climate change, use of resources, pollution, and impacts on bio-diversity. These concerns are balanced against their need for a high quality internal environment. The BREEAM Rating benchmarks used for Certification are <30% (Unclassified), >/=30% (Pass), >/=45% (Good), >/=55% (Very Good), >/=70% (Excellent) and >/=85% (Outstanding). However, these can only be applied after all categories have been sub-totalled into their overall 'Issue' categories. At such time scores are 'weighted' and the final marks then calculated.

The Preliminary rating for this scheme is estimated as achieving the Target Rating if the issues awarded with credits are implemented in full.

To allow for a margin of safety, it is recommended that a score that is at least 5.0% in excess of the required target percentage is specified. This is because failure on any major issue may force unexpected or unwanted alternative strategies to achieve the desired rating and potentially additional expense.

The Project Team should check and confirm the data and assumptions contained within this report at the earliest opportunity. This will aid the timely and accurate submission of data for the Interim Code Assessment.

The project team should ensure that the drawings and specifications follow AND clearly state ALL the relevant Code issues for each of the applicable credits. Please note that for the Interim Stage Assessment, without the evidence, the assessor cannot award the credits for such certificated assessment. Once the relevant Code issues are integrated with the design, ALL compliant data (auditable proof, as described in the Code Technical Guide) should then be submitted to the Assessor for the Interim Stage report to be written. Once this report is finished it can be submitted to the BRE for QA and Interim Certification, as necessary. This is then followed by the Post Construction Stage report, which is compiled following site visit(s), receipt of "as built" evidence and ultimately, Post Construction Certification.

REFERENCES

This report was based on the following drawings along with written, verbal and web-based evidence:

REF	Status/Revision	Dated
Site Location by FT Architects 319-00-00	P1	20/12/2016
Existing Plans by FT Architects 319-00-01 to 04 and 10	P1	20/12/2016
Proposed Plans by FT Architects 319-01-01 to 04	P1	20/12/2016

<end>