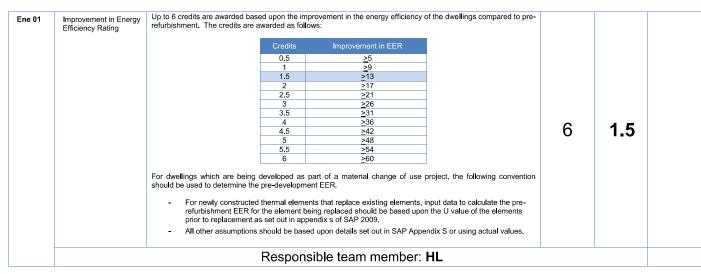
## Berkeley Homes

## BREEAM Domestic Refurbishment Pre-assessment Rev. D

## 6.3 Energy



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BREEAM Domestic Refurbishment Pre-assessment Rev. D

Ene 02

## Latchmere House Berkeley Homes



2.5

Up to 4 credits are awarded based upon the Energy Efficiency Rating for each dwelling post refurbishment. The credits are awarded as follows: Energy Efficiency Rating Post Refurbishment

Credits	EER Post Refurbishment	Minimum Requirements	
0.5	<u>≥</u> 50	BREEAM Pass	
1	<u>≥</u> 55	BREEAM Good	
1.5	<u>≥</u> 60		
2	<u>&gt;</u> 65	BREEAM Very Good	4+
2.5	<u>≥</u> 70	BREEAM Excellent	41
3	<u>≥</u> 75		
3.5	<u>&gt;</u> 80	BREEAM Outstanding	
4	>85		

Responsible team member: HL

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## Berkeley Homes

## BREEAM Domestic Refurbishment Pre-assessment Rev. D



Ene 03	Primary Energy Demand	Up to 7 credits are awar credits are awarded as for		upon the primary energy demand for the dwelling post refurbishment. The					
			Credits	Primary Energy Demand Post Refurbishment (kWh/m²/yr)					
			0.5	<u>≤</u> 400					
			1	≤370					
			1.5	≤340					
			2	≤320					
			2.5	≤300	_	_			
			3	≤280	- (	5			
			3.5	<u>&lt;</u> 260	-				
			4	<u>≤</u> 240					
			4.5	<u>≤</u> 220					
			5	<u>≤</u> 200					
			5.5	<u>≤</u> 180					
			6	<u>≤</u> 160					
					6.5	<u>≤</u> 140			
			7	<u>≤</u> 120					
			I						
Ene 04	Renewable Technologies	1 credit is awarded wher zero carbon technologies with a maximum demand	s (LZCs) and	1% of the dwellings primary energy demand per annum is supplied by low or the dwelling has reduced energy demand prior to the specification of LZCs n2/yr.					
				east 15% of the primary energy demand per annum is supplied via low and he primary energy demand is reduced to a maximum of 220kWh/m2/year.	2	0			
		Where covered by the must be certified.	Microgenera	tion Certification Scheme (MCS), technologies under 50kWe or 300kWth					
		Combined Heat and Po	ower (CHP)	schemes above 50kWe must be certified under the CHPQA standard.					
	Responsible team member: -					1			

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## Latchmere House





2+1

2+1

BREEAM Domestic Refurbishment Pre-assessment Rev. D

Ene 05	Energy Labelled White Goods	1 credit is awarded where fridges and freezers or fridge freezers are recognised under the Energy Saving Trust Recommended labelling scheme.		
		1 credit is awarded where washing machines and dishwashers are provided and are recognised under the Energy Saving Trust Recommended labelling scheme and washer dryers and tumble dryers are B rated under the EU Energy Efficiency Labelling Scheme.	2	2
		Where a washer dryer or tumble dryer is not provided, information on the EU Energy Efficiency Labelling Scheme is to be provided to all dwellings.	_	_
		1 credit is awarded where no white goods are provided but all dwellings are provided within information on the EU Energy Efficiency Labelling Scheme.		
		Responsible team member: <b>BH</b> (to include in contractor prelims)		
Ene 06	Drying Space	1 credit is awarded where secure internal or external space with posts and footings, or fixings holding:		
		- Studios, one and two bed dwellings - at least 4m of line.	1	1
		- Three or more bedroom dwellings - at least 6m of line.	•	-
Ene 07	Lighting	1 credit is awarded where energy efficient space lighting is provided and energy efficiency security lighting is provided		
		OR	0	_
		Where energy efficient space lighting is provided and security lighting is not provided.	2	
		1 credit is awarded where the energy required for internal lighting is minimised through the provision of a maximum wattage across the total floor are of the dwelling of 9 watts per m².		
		Responsible team member: <b>HL</b>		
Ene 08	Energy Display Devices	1 credit is awarded where the current electricity consumption or primary heating fuel consumption data is displayed to occupants by a compliant energy display device.		
			<b>~</b> 4	<b>A</b> - <b>A</b>

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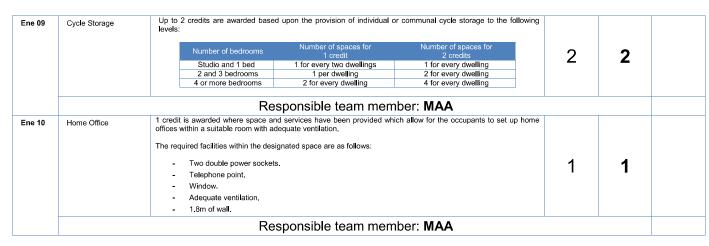
Responsible team member: HL

2 credits are awarded where current electricity and primary heating fuel consumption data is displayed to the occupants by a compliant energy display device.

1 innovation credit is awarded where the energy display device is capable of recording consumption data.

## Berkeley Homes

## BREEAM Domestic Refurbishment Pre-assessment Rev. D



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Latchmere House

## Berkeley Homes



BREEAM Domestic Refurbishment Pre-assessment Rev. D

## 6.4 Water

Wat 01	Internal Water Use	Up to 3 credits at the following star		d where water efficient fittings are spe	cified to reduce the internal potable	e water use to			
4			Credits	Calculated water consumption (litres per person per day)	Minimum Requirements				
Mandatory Elements			0	>150	roquiiomono				
			0.5	140-150		-			
			1	129-139	BREEAM Very Good		0.4	_	
			1.5	118-128			3+1	2	
			2	107-117	BREEAM Excellent				
			2.5	96-106					
			3	<95	BREEAM Outstanding				
	result in an internal water consumption of less than 80 litres per person per day.  Responsible team member: MAA								
Wat 2	External Water Use			a compliant rainwater collection syste dwelling has no communal or individu		n provided for	1	1	
				Responsible team m	ember: <b>MAA</b>		I		
Wat 3	Water Meter			an appropriate water meter for mea meter should meet the following requ		ater has been			
		within rated ope	erating con	measure continuously, <u>memorise and</u> ditions. A meter includes at least a r evices if present) and an indicating de	neasurement transducer, a calcula		1	1	
				Responsible team n	nember: <b>HL</b>	l .			

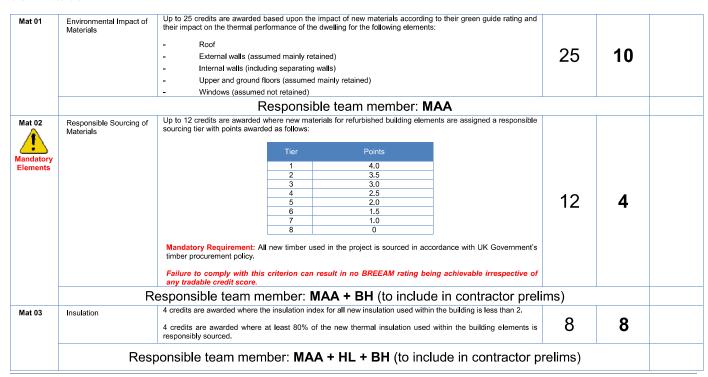
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## Berkeley Homes

## BREEAM Domestic Refurbishment Pre-assessment Rev. D



## 6.5 Materials



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## Latchmere House



BREEAM Domestic Refurbishment Pre-assessment



## 6.6 Waste

Was 01	Household Waste	One credit of	can be awarded where th	e dwelling complies with one of the following scenarios:			
			Scenario	Requirements			
		1	Compliant collection scheme	Three internal recycling containers where recycling is no co-mingled     One internal recycling container provided where recycling in co-mingled.     Minimum thirty litre total capacity, no single container less than seven litres.     Dedicated position within the dwelling.			
		2	Non-compliant collection scheme in place and no external storage	Three internal recycling containers.     Minimum sixty litre capacity.			
		3	No compliant collection scheme in place and adequate external storage	Three internal recycling containers.     Minimum thirty litre total capacity, no single container smaller than seven litres.     Dedicated position within the dwelling.	2	1	
		1 credit can	be awarded where the f	ollowing composting facilities are provided:  Internal recycling storage requirements			
		Dwelling external s	with significant space	A compost service or facility is provided for green/ garden waste. A compost service or facility is provided for kitchen waste. An interior container is provided for kitchen comporting waste of at least seven litres.			
		Dwellings private sp	s with no significant pace	Where a composting service is provided for kitchen waste. Where an interior container is provided for kitchen composting waste of at least seven litres.			

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# Latchmere House Berkeley Homes

# BREEAM Domestic Refurbishment Pre-assessment Rev. D

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Was 02	Refurbishment Site Waste Management	1 credit can be awarded where a compliant Site Waste Management Plan is in operation.  1 credit can be awarded where the first credit is achieved and the following requirements are met:  - Where non-hazardous construction waste generated by the dwellings refurbishment meets the following waste efficiency benchmarks:  Amount of non-hazardous construction waste generated per £100,00 of project value  m³  Tonnes  26.52  - Where the amount of waste generated against £100,000 of project value is recorded within the SWMP.  - Where a pre-refurbishment audit of the existing buildings is completed.  - Where the demolition is included within the refurbishment program, then the audit included demolition materials.  A third credit is awarded where non-hazardous demolition waste generated by the dwellings refurbishment meets the following standards:  Waste types  Volume  Tonnes  Non-hazardous construction waste  Non-hazardous demolition waste  80%  90%  Exemplary Level Requirements:  - Where a compliant Level 1; Site Waste Management Plan (SWMP) is in place  - Where Non-hazardous construction waste generated by the dwellings refurbishment meets or exceeds the resource efficiency benchmarks set by BREEAM  - Where the percentage of non-hazardous construction and demolition waste generated by the project has been diverted from landfill and meets or exceeds the refurbishment & demolition waste diversion benchmarks in accordance with BREEAM criteria	
		Responsible team member: <b>BH</b> (to include in contractor prelims)	

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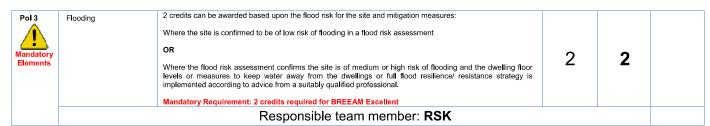
BREEAM Domestic Refurbishment Pre-assessment Rev. D

ol 1	NO <sub>X</sub> Emissions		asis of $NO_X$ emission arising from the in accordance with the following $NO_X$	om the operation of all space heating ing criteria.	g and hot water	
		Credits	Dry NOx level (mg/kWh)	Boiler class (BS EN 297: 1994)		
		1	≤ 100	4	3	3
		2	≤ 70	5	3	J
		3	≤ 40	-		
		3 points are awarded where which do not produce NO <sub>x</sub> en		ter energy requirements are fu <b>ll</b> y m	net by systems	
		Responsible team member: <b>HL</b>				
ol 2	Surface Water Run Off	where applicable, public  Where the building is I which drains onto a per extension must be man:  credits are awarded where w.  Where all run off from a control methods. This is control methods. This is a credits are awarded where w.  An appropriate qualified.  Where run off as a rereduction in the peak run discharged into water or	erights of way, car parks and no peing extended onto previously meable surface, the additional aged on site using SuDS. atter run-off from the site is slight the roof for rainfall depths up thould include run off from all extended atter run-off from the site is sub professional is appointed to de sult of the refurbishment is me un off rate during a 1 in 100 y purses is reduced by 75%.	y permeable surfaces or an imperrun off for rainfall up to 5mm caused htty reduced: o 5mm, have been managed on site disting and new parts of the roof. stantially reduced: ssign the drainage strategy for the site anaged on site using source contrear event by 75% and the total vol	neable surface by the area of the using source achieving a	1
			Responsible team	attenuated using source control.		

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# Latchmere House Berkeley Homes

## BREEAM Domestic Refurbishment Pre-assessment Rev. D



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Berkeley Homes

Sustainability and Energy Assessment – Scheme 1 Rev. B



10.0 Appendix D: London Borough of Richmond upon Thames Sustainable Construction Checklist

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### LBRUT SUSTAINABLE CONSTRUCTION CHECKLIST

TO BE FILLED IN FOR ALL RESIDENTIAL DEVELOPMENT PROVIDING ONE OR MORE NEW RESIDENTIAL UNITS, AND ALL OTHER FORMS OF DEVELOPMENT PROVIDING 100sqm OR MORE OF NON-RESIDENTIAL DEVELOPMENT

ALL OTHER CLASSES OF DEVELOPMENT ARE ENCOURAGED TO COMPLY WITH THIS CHECKLIST

This document forms part of the Sustainable Construction Checklist SPD, and should be read in conjunction with the associated Guidance Document. Where further information is requested, please either fill in the relevant section, or refer to the document where this information may be found in detail, e.g. Flood Risk Assessment or similar. Scores will be awarded for different achievements on site, and a final score attributed to the site as a whole.

Property Name (if relevant): Latchmere Development Type	House - Scheme 1 New and refurbished residential units	Application No. (if known):	
Address (include, postcode) Latchmere	House, Church Road, Richmond, TW10 5HH	HIS CONTROL OF THE PROPERTY OF	
Completed by:	Louise Will	e, Hoare Lea	
MINIMUM POLICY COMPLIANCE			
	Please check the Sustainable Construction webpage	or the policy requirements	
Environmental Rating of development:		24F 64F 82B	
Residential new-build Code for Sustainable Homes Level	Rating achieved Code Level 4	A pre-assessment is required to support this. Has this been provided?	Ø
Non-Residential new-build (100sqm or more) BREEAM Level	Please Select	A pre-assessment is required to support this. Has this been provided?	
Extensions and conversions (residential dwellin EcoHomes Level	BREEAM Domestic Refurbishment Excellent	A pre-assessment is required to support this. Has this been provided?	Ø
If other environmental rating sought please stat	e:		
Score awarded for Environmental Rating (this v CSH: BREEAM:		= 20	Score

Energy Assessment (Please see Justification & Guidance document for more details on how to prepare an Energy Assessment)

An energy assessment is required that demonstrates the expected energy and carbon dioxide emissions saving from energy efficiency and renewable energy measures, including the feasibility of CHP/CCHP and community heating systems. Has this been submitted? If yes, please tick. Carbon Dioxide emissions reduction (Please see Justification & Guidance document for more details on how to calculate these figures as part of the Energy Assessment)

Percentage of total site CO<sub>2</sub> emissions saved through renewable energy installation?

Percentage of regulated CO<sub>2</sub> emissions saved below Building Regulations target level through all low carbon measures?

Accredited Assessors (Please see Guidance document for more details on accredited assessors)

Have you used a licensed Code for Sustainable Homes, EcoHomes and BREEAM Accredited Assessor respectively?



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.1	Need for Cooling	Score	
6	How does the development incorporate cooling measures? Tick all that apply:		
	<ul> <li>Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sqm</li> </ul>	6 🗆	
	<ul> <li>Reduce heat entering a building through providing/improving insulation and living roofs and walls</li> </ul>	2 🗆	
	<ul> <li>Reduce heat entering a building through shading</li> </ul>	3 🗹	
	<ul> <li>Exposed thermal mass and high coilings</li> </ul>	4 🗆	
	<ul> <li>Passive ventilation</li> </ul>	3 🗆	
	<ul> <li>Mechanical ventilation with heat recovery</li> </ul>	1 1	
	<ul> <li>Active cooling systems, I.e. Air Conditioning Unit</li> </ul>	0 🗆	
2	Heat Generation		
	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy 4A.6)? Tick the heating system hierarchy, been selected (defined in London Plan policy 4A.6)?	iting and	
	cooling system that will be used in the development:	A	
	<ul> <li>Connect to existing CCHP/CHP networks</li> </ul>	6 🗆	
	<ul> <li>Site-wide CCHP/CHP powered by renewable energy</li> </ul>	5 🗆	
	Gas-fired CCHP/CHP	4 🗆	
	<ul> <li>Communal heating/cooling powered by renewable energy</li> </ul>	3 🗖	
	<ul> <li>Communal heating/cooling powered by gas</li> </ul>	2 🗹	
	<ul> <li>Individual heating/cooling powered by renewable energy</li> </ul>	1 🗆	
	<ul> <li>Individual heating/cooling powered by gas or electricity</li> </ul>	0 🗹	
21	Pollution: Air, Noise and Light		
31	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2 🗹	
	Sub-distribution by an in-ministration of designed for dest of motion and assessment of the		
	Does the development plan to include a biomass boiler?	· 🗆	
	<ul> <li>If yes, please refer to the <u>biomass guidelines</u> for the Borough of Richmond, and see guidance for</li> </ul>	_	
	supplementary information. If the proposed boiler is of a qualifying size, you may need to complete the	- 🗆	
	information request form found on the Richmond websit		
	Please tick only one option below		
	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	3 🗆	
	Has the development taken care to not create any new noise generation/transmission issues in its intended	1 🖸	
	Las the devalopment taken data to not deate any new noise generational assumes some source in no microtrop	10000	
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3 🗹	
	Have you attached a Lighting Pollution Report?	- 🗆	
		Subtotal	12.0
ea	ise give any additional relevant comments to the Energy Use and Pollution Section below	Cannot Charles (A)	

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2.11	RANSPORT			
	Provision for the safe efficient and sustainable movement of people and goods			
a.	Does your development provide opportunities for occupants to use innovative travel to	echnologies, such as electri	ic cars?	2 🗹
		• • • • • • • • • • • • • • • • • • • •		
b.	For major developments ONLY: Has a Transport Assessment been produced for you	ur development based on T	fL's Best Practice Guidance	9?
70.00	If you have provided a Transport Assessment as part of			
	Checklist.	,		5 🗹
C.	For smaller developments ONLY: Have you provided a Transport Statement?			5 🗖
d.	Does your development provide cycle storage?			2 🗹
-	If so, for how many bicycles?			146
	<ul> <li>Is this shown on the site plans?</li> </ul>			- 2
θ.	Will the development create or improve links with local and wider transport networks?	If yes, please provide detail	ils below.	2 🗹
				Subtotal 11.0
Plea	se give any additional relevant comments to the Transport Section below			
	ment to point a: 31 of the units provide garages which provide the opportunity for election	ric vehicle charging.	THE RESERVE OF THE PERSON NAMED IN	
	ment to point d: Only communal stores for apartments shown on plan, other storage sp		for houses	
Corr	ment to point a: A new pedestrian and cycle route is to be provided via Garth Road. N	ew pedestrian links are also	o provided to Latchmere La	ne and St Anne Bolevns Walk.
	oving permeability and access to the local facilities and bus stops on Tudor Drive.	on possession mino are also	- p	and bologilo ritality
mpi	oving politicability and access to the local (doubtes and bas diops on rador brive.			
		Literature Committee of the Committee of		
3	BIODIVERSITY			
3.1 P	finimising the threat to biodiversity from new buildings, lighting, hard surfacing a	ind people		
a.	Does your development involve the loss of an ecological feature or habitat, including a	loss of garden or other gre	een space compared to the	pre-development site? -2 ☑
	(Tick if yes)	•		
	If so, please state how much in sqm?			5,400 sqm
	Security of the second process of the second			
b.	Does your development involve the removal of any tree(s)? (Tick if yes)			- <b>2</b>
	<ul> <li>If so, has a tree report been provided in support of your</li> </ul>	application? (Tick if yes)		- <b>!</b>
C.	Does your development plan to add any tree(s) on site? (Tick if yes)			<u>-</u> 🗾
	A contract to the contract to			
d.	Please indicate which features and/or habitats that your development will incorporate to	o improve on site biodivers	sity:	
	<ul> <li>Pond, reedbed or extensive native planting</li> </ul>	6 🗆	Area provided:	TBC at detailed design sqm
	An extensive green roof	5 🗆	Area provided:	TBC at detailed design sqm
	An intensive green roof	4 🗆	Area provided:	TBC at detailed design sqm
	A brown roof	1 🗆	Area provided:	TBC at detailed design sqm
	Garden space	4 🗹	Area provided:	TBC at detailed design sqm
	<ul> <li>Additional native and/or wildlife friendly planting to period</li> </ul>	pheral		SERVICE CONSTRUCTION OF THE PARTY OF THE PAR
	areas	3 🗹	Area provided:	TBC at detailed design sqm
	<ul> <li>Additional planting to peripheral areas</li> </ul>	2 2	Area provided:	TBC at detailed design sqm
	A living wall	2 🗆	Area provided:	TBC at detailed design sqm
	Bat boxes	0.5	0 525070 <b>2</b> 450070 (005T)	7.00
	Bird boxes	0.5		
	- Dild Doxes			
	Other	0.5		
		0.5		Subtotal 8.0
Diago	• Other		ronocals with roof plate are-	
			roposals with roof plate area	

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4	FLOODING AND DRAINAGE		
4.1	Reducing and mitigating the risks of flooding and other impacts of climate change in the borough		
a.	Is your site located in an area at risk of flooding? (Tick if yes)	<u>.</u> •	
	If yes, please tick only ONE option below:	W. Parasi	
	<ul> <li>New development in a high flood risk zone (3a)</li> </ul>	-2 🗖	
	<ul> <li>New development in a medium flood risk zone (2)</li> </ul>	_1 🔲	
	<ul> <li>Redevelopment of an existing building or conversion</li> </ul>	0 🗆	
	Is your development within 20 metres of a watercourse or a flood defence? (Tick if yes)	- 🗆	
	Have you submitted a Flood Risk Assessment? (Tick if yes)	-0	
ь.	Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that app	lv)	
	Store rainwater for later use	5 🗆	
	<ul> <li>Use of infiltration techniques such as porous surfacing materials to allow dra</li> </ul>		
	Attenuate rainwater in ponds or open water features	4 2	
	Store rainwater in tanks for gradual release to a watercourse	3 🗖	
	Discharge rainwater directly to watercourse	2 🗖	
	Discharge rainwater to surface water drain	1 🗖	
	Discharge rainwater to combined sewer	0	
		N/A	
	Please give the change in area of permeable surfacing which will result from your development proposal:	N/A sqn	1
	Please provide details of the permeable surfacing below	please represent a loss in permeable area as a negative number  Subtotal	7.0
Ple	ase give any additional relevant comments to the Flooding and Drainage Section below	Subtotal	7.0
	nt C is not applicable, as all drainage will be by infiltration to the ground.		
A F	lood Risk Assessment has been prepared as part of the planning application.		
	, and a second s		

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;	IMPROVING RESOURCE EFFICIENCY	
.1	Reduce waste generated and amount disposed of by landfill though increasing level of re-use and recycling	
١.	Will demolition be required on your site prior to construction?	0 🗆
	<ul> <li>Will 10% of demolition waste or more be reused in the new development?</li> </ul>	7 🗆
	<ul> <li>Will 15% of demolition waste or more be recycled?</li> </ul>	1 🗹
	PLOTE STATE OF STATE STATE OF STATE	
	Does your site have any contaminated land or has the site previously been used for potentially contaminating uses?	7 🗖
	<ul> <li>Have you submitted an assessment of the site contemination?</li> </ul>	2 🗆
	<ul> <li>Are plans in place to remediate the contamination?</li> </ul>	2 🗆
	<ul> <li>Have you submitted a remediation plan?</li> </ul>	1 🗆
	Are plans in place to include composting on site?	1 🗹
•	Are plans in place to include composting on site?	7 🖸
.2	Reducing levels of water waste	
a. Will th	Will the following measures of water conservation be incorporated into the development? (Please tick all that apply):	
	<ul> <li>Fitting of water efficient taps, shower heads, dual flush tollets etc</li> </ul>	1 🗸
	<ul> <li>Use of water efficient A or B rated appliances</li> </ul>	1 🗹
	Rainwater harvesting for internal use	`4 🗆
	Greywater systems	4 🗆
	Fit a water meter	1 🗹
	What is the water consumption target of the development (in litres per person per day?)	105 new built / 117 refurb
	* The recommended target for conversions or other small scale residential properties is 105	105 new built / 117 feturb
	The recommended target to conversions or other small scale residential properties is 105 litres/person/day. Will this be met? (Indicate if ves)	
	ilites/person/day. Valii triis be met/ (indicate ii yes)	1 2
	If applicable, have you submitted evidence that capacity exists in the public sewerage and water supply network?	Ø
		Subtotal
le	ase give any additional relevant comments, including reasons why the water consumption target has not been met should this be the case,	•
	ne Improving Resource Efficiency Section below	

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6	DESIGN STANDARDS AND ACCESSIBILITY	
6.1 a.	Ensure flexible adaptable and long-term use of structures  If the development is residential, will it meet the requirements set out in the Residential Design Standards SPD for internal space and layout?  If the standards are not met, in the space below, please provide details of the functionality of the internal space and layout.  All standards proposed met.	1 🖸
AN		*** 
b.	If the development is residential, will it meet the criteria included in the Lifetime Home Standards?  • If not all Lifetime Homes criteria are to be met, in the space below, please provide details of any accessibility measures included in the development.  All criteria proposed met	2 🗵
C.	<ul> <li>Are 10% or more of the units in the development wheelchair accessible?</li> </ul>	1 🗹
OR d.	If the development is non-residential, does it comply with requirements included in Richmond's Design for Maximum Access SPG?  • Please provide details of the accessibility measures specified in the Maximum Access SPG that will be included in the development  N/A	2 🗆
Plea	Subtrace give any additional relevant comments to the Design Standards and Accessibility Section below	otal 3

Score for new construction	Score for extensions or conversions	Rating	Significance
80 or more	70 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development
71-79	61-69	A	Makes a major contribution towards achieving sustainable development in Richmond
51-70	41-60	В	Helps to significantly improve the Borough's stock of sustainable developments
36-50	26-40	С	Minimal effort to increase sustainability beyond general compliance
35 or less	25 or less	FAII	Does not comply with planning policies on sustainability and climate change

Authorisation:
I herewith declare that I have filled in this form to the best of my knowledge

LBRUT Sustainable Construction Checklist- Scoring Matrix

Signature Oliv Date 18-12-2013

TOTAL 63

LBRuT Sustainable Construction Checklist SPD August 2011