LBRUT Sustainable Construction Checklist - January 2016

This document forms part of the Sustainable Construction Checklist SPD. This document must be filled out as part of the planning application for the following developments: all rms oucument forms part of the sustainable construction checklist SPD. This document must be fulled out as part of the planning application for the following developments: all residential development providing one or more new residential units (including conversions leading to one or more new units), and all other forms of development providing of the planning application for the following developments: all not in the sustainable construction checklist. 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. Further guidance on completing the Checklist may be found in the Justification and Guidance section of this SPD.

Property Name (if relevant):	Homebase		Application No.	(if known):	
Address (include. postcode) Completed by:	84 Manor Road, North Sheen, Richmond, TW9 Louise F. Wille, Principal Sustainability Consulta				
For Non-Residential Size of development (m2)	480		For Residential Number of dwellings	385	
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)				
	sment been submitted that demonstrates the expect asures, including the feasibility of CHP/CCHP and			efficiency and	Yes
	eduction xide emissions reduction against a Building Regul .ondon Plan Policy 5.2 (2015) require a 35% reduct		lding Regulations 2013.		40%
Ū.	te CO2 emissions saved through renewable energe				1%
	•	e Section of this SPD for the po	olicy requirements		
Environmental Rating of dev					
Non-Residential new-build (10 BREEAM Level Extensions and conversions for	Excelle	ent	Have you attached a pre-as	sessment to support this?	
BREEAM Domestic R Extensions and conversions for	efurbishment Please S	elect	Have you attached a pre-as	sessment to support this?	
BREEAM Level	Please S	elect	Have you attached a pre-as	sessment to support this?	
Score awarded for En BREEAM:	vironmental Rating: Good = 0, Very Good = 4, Excellent = 8, Outsta	nding = <i>16</i>			Subtotal 8
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)				

Water Usage Internal water usage limited to 105 litres person per day. (Excluding an allowance 5 litres per person per day for external water consumption). Calculations using the water efficiency calculator for new dwellings have been submitted.

v 1 Subtotal 1

2.1 NG	eed for Cooling	Score
a.	How does the development incorporate cooling measures? Tick all that apply:	
	Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sgm	
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	✓ 2
	Reduce heat entering a building through shading	[] [] []
	Exposed thermal mass and high ceilings	U 1 1 4
		년 년 3
	Passive ventilation	
	Mechanical ventilation with heat recovery	√ 1
	Active cooling systems, i.e. Air Conditioning Unit	√ 0
2.2 He	at Generation	
) .	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy 5.6)? Tick all heating and	
	cooling systems that will be used in the development:	
	Connection to existing heating or cooling networks powered by renewable energy	
	Connection to existing heating or cooling networks powered by gas or electricity	
	Site wide CHP network powered by renewable energy	4
	Site wide CHP network powered by gas	□ 3 ✓ 2
	Communal heating and cooling powered by renewable energy	I 2
	Communal heating and cooling powered by gas or electricity	✓ 1
	Individual heating and cooling	
a. D.	Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan include a biomass boiler?	☑ 2
).		- L
	If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary	
	information. If the proposed boiler is of a qualifying size, you may need to completed the information request form found on the Richmond website.	- 🗆
	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 operation?	√ <u>1</u>
i.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	√ 3
э.	Have you attached a Lighting Pollution Report?	- []
		Subtotal
	give any additional relevant comments to the Energy Use and Pollution Section below	

3. TRANSPORT
 3.1 Provision for the safe efficient and sustainable movement of people and goods
 a. Does your development provide opportunities for occupants to use innovative travel technologies?

Please	explain:		
	evelopment is proposed as virtually "car-free" to meet the requirements of the Local and London Plans. Minimal parking is proposed on site for vehicles and car club vehicles to be operated from the site to meet residents requirements for vehicle trips.	cles are	
	rer, the site is highly accessible with ease of access to facilities within walking and cycling distance and an appropriate level of long and short stay cycle parking is propo s is also available to the bus and rail network thereby providing excellent opportunities for residents to travel by means other than the private car.	sed.	
b.	Does your development include charging point(s) for electric cars?	√ 2	
C.	For major developments ONLY: Has a Transport Assessment been produced for your development based on TfL's Best Practice Guidance? If you have provided a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist.	√ 5	
d.	For smaller developments ONLY: Have you provided a Transport Statement?	5	
e.	Does your development provide cycle storage? (Standard space requirements are set out in the the Council's Parking Standards - DM DPD Appendix 4) If so, for how many bicycles? Is this shown on the site plans?	✓ 2 Im storage ✓ -	
f.	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	✓ <u>2</u>	
Discos	aire ann additional relevant commants to the Tennanat Castion below	Subtotal	11
Electri enable	give any additional relevant comments to the Transport Section below c vehicle car charge points will be provided for 20% of residential car parking spaces in line with Richmond's Local Plan (2018). Additional passive provision will be reque additional car charge points to be easily installed in future. refer to the transport plans that are submitted in support of this application.	ired to	

	BIODIVERSITY						
		biodiversity from new buildings, lighting, hard su	rfacing and people				
a.		ent involve the loss of an ecological feature or habitat		den or other areen sp	ace? (Indicate if ves)		□ -2
	,	If so, please state how much in sqm?	5	5	,,		sqm
b.	Does your developme	ent involve the removal of any tree(s)? (Indicate if yes)				
		If so, has a tree report been provided in support of	your application? (Indi-	cate if yes)			- 🗸
с.	Does your developme	ent plan to add (and not remove) any tree(s) on site?	Indicate if yes)				-
d.	Please indicate which	features and/or habitats that your development will in	corporate to improve of				
		Pond, reedbed or extensive native planting		6 🔲	Area provided:		sqm
		An extensive green roof		5 🗹	Area provided:	2644	sqm
		An intensive green roof		4 🗹	Area provided:	1085	sqm
		Garden space		4 🗸	Area provided:	4685	sqm
		Additional native and/or wildlife friendly planting to	peripheral areas	3 🗸	Area provided:	661	sqm
		Additional planting to peripheral areas		2 🗸	Area provided:	661	sqm
		A living wall		2 🗹	Area provided:	786 (442 existing,	344 propose sqm
		Bat boxes		0.5 🔽			
		Bird boxes		0.5 교 0.5 교			
		Other		0.5 🗹			
							Subtotal 21.5
		evant comments to the Biodiversity Section below					
		gical Appraisal provided in support of this application					
Other	refers to insect boxes.						
5	FLOODING AND DR	AINAGE					
5.1 Mitigat		ng and other impacts of climate change in the bo	rough				
а.	Is your site located in	a high flood risk zone (Zone 3)? (Indicate if yes)					- -2
		Have you submitted a Flood Risk Assessment? (In	dicate if yes)				✓ -
b.	Which of the following	g measures of the drainage hierarchy are incorporate	d onto your site? (tick a	ll that apply)			_
		Store rainwater for later use					5
		Use of infiltration techniques such as porous surfa-		drainage on-site			<u>v</u> 3
		Attenuate rainwater in ponds or open water feature					4
		Store rainwater in tanks for gradual release to a wa	atercourse				<u>□</u> 3
		Discharge rainwater directly to watercourse					2
		Discharge rainwater to surface water drain					1
		Discharge rainwater to combined sewer					0
с.		ge in area of permeable surfacing which will result fro	m your development p				11570 sqm
	Please provide details	s of the permeable surfacing below		please repres	sent a loss in permeable area	a as a negative number	0
Plaana	aivo ony additional rais	evant comments to the Flooding and Drainage Section	bolow				Subtotal 3
	refer to the Drainage D		Delow				
		andscape (total figure provided previously) include 6,	765 sam permeable su	rfaces on ground 4.6	85 sam areen roofs, and	120 sam planting on	
		comprises the following: 1. Soft landscape mass plant					nd
	g areas; 4. Living roofs.	3	5				
		re expected to make up approx. 63% of the total site a	area.				
6	IMPROVING RESOU						
6.1 Re	duce waste generated	and amount disposed of by landfill though increa					
	duce waste generated				n waste is reused/recycl	ed]	V 1
6.1 Re	duce waste generated	and amount disposed of by landfill though increa quired on your site prior to construction? [Points will o	nly be awarded if 10%	or greater of demolitio	n waste is reused/recycl	ed]	
6.1 Re	duce waste generated	and amount disposed of by landfill though increa	nly be awarded if 10%	or greater of demolitio	n waste is reused/recycl	əd]	✓ 1 0 %
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7 ACCESSIBLITY 7.1 Ensure flexible adaptable and long-term use of structures a. If the development is residential, will it meet the requirements of the nationally described space standard for internal space and layout Please refer to the DAS AND b. If the development is residential, will it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'? If this is not met, in the space below, please provide details of any accessibility measures included in the development. Please refer to the DAS AND b. If the development is residential, will it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'? If this is not met, in the space below, please provide details of any accessibility measures included in the development. Please refer to the DAS For major residential developments, are 10% or more of the units in the development to Building Regulation Requirement M4 (3) 'wheelchair user dwellings'? OR c. 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 Please refer to the DAS Please refer to the DAS	 ✓ 1 ✓ 2 ✓ 1 ✓ 2
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Please provide details of the accessibility measures specified in the Maximum Access SPG that will be included in the development	V Z
development	
2	Subtotal 6
UT Sustainable Construction Checklist- Scoring Matrix for New Construction (Non-Residential and domestic refurb) TOTAL	70 5
Score Rating Significance	AL 78.5
	4L 78.5
80 or more A+ Project strives to achieve highest standard in energy efficient sustainable development	AL 78.3
71-79 A Makes a major contribution towards achieving sustainable development in Richmond	42 78.5
71-79 A Makes a major contribution towards achieving sustainable development in Richmond 51-70 B Helps to significantly improve the Borough's stock of sustainable developments	4L 78.5
71-79 A Makes a major contribution towards achieving sustainable development in Richmond	4L 78.3
71-79 A Makes a major contribution towards achieving sustainable development in Richmond 51-70 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance	al <u>78.3</u>
71-79 A Makes a major contribution towards achieving sustainable development in Richmond 51-70 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance 35 or less FAIL Does not comply with SPD Policy	al <u>78.3</u>
71-79 A Makes a major contribution towards achieving sustainable development in Richmond 51-70 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance 35 or less FAIL Does not comply with SPD Policy	al <u>78.3</u>
71-79 A Makes a major contribution towards achieving sustainable development in Richmond 51-70 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance 35 or less FAIL Does not comply with SPD Policy JT Sustainable Construction Checklist- Scoring Matrix for New Construction Residential new-build	4L <u>78.5</u>
71-79 A Makes a major contribution towards achieving sustainable development in Richmond 51-70 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance 35 or less FAIL Does not comply with SPD Policy JT Sustainable Construction Checklist- Scoring Matrix for New Construction Residential new-build Score Rating Significance	aL <u>78.5</u>
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71-70 A Makes a major contribution towards achieving sustainable development in Richmond 51-70 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance 35-51 ess FAIL Does not comply with SPD Policy UT Sustainable Construction Checklist-Scoring Matrix for New Construction Residential new-build Score Rating Significance 81 or more A++ Project strives to achieve highest standard in energy efficient sustainable development 64-80 A+ Project strives to achieve highest standard in energy efficient sustainable development	4L <u>78.5</u>
71-79 A Makes a major contribution towards achieving sustainable development in Richmond 51-70 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance 36-50 C Minimal effort to increase sustainability beyond general compliance 35 or less FAIL Does not comply with SPD Policy UT Sustainable Construction Checklist- Scoring Matrix for New Construction Residential new-build Score Rating Significance 81 or more A++ Project strives to achieve highest standard in energy efficient sustainable development 64-80 A+ Project strives to achieve highest standard in energy efficient sustainable development 55-63 A Makes a major contribution towards achieving sustainable development in Richmond 35-54 B Helps to significantly improve the Borough's stock of sustainable developments	4L <u>78.5</u>
71-79 A Makes a major contribution towards achieving sustainable development in Richmond 51-70 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance 35 or less FAIL Does not comply with SPD Policy UT Sustainable Construction Checklist- Scoring Matrix for New Construction Residential new-build Score Rating Significance 81 or more A++ Project strives to achieve highest standard in energy efficient sustainable development 64-80 64-80 A+ Project strives to achieve highest standard in energy efficient sustainable development 55-63 A Makes a major contribution towards achieving sustainable development in Richmond 35-54 B Helps to significantly improve the Borough's stock of sustainable developments	aL <u>78.5</u>