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 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 **100sqm or more of non-residential floor space**. Developments including new non-residential development of less than 100sqm floor space, extensions less than 100sqm, and other conversions are strongly encouraged to comply with this 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):			Application No. (if kno	wn):	
Address (include. postcode) Completed by:	422 Upper Richmond Road West Tracey Bridgwood				
For Non-Residential Size of development (m2)		For Reside Number of		7	
1 MINIMUM COMPLIAN	ICE (RESIDENTIAL AND NON-RESIDENTIAL)				
	ment been submitted that demonstrates the expected sures, including the feasibility of CHP/CCHP and com			y and	YES
	Juction xide emissions reduction against a Building Regulatio ondon Plan Policy 5.2 (2015) require a 35% reduction		tions 2013.		35.69
Percentage of total sit	e CO2 emissions saved through renewable energy ins	tallation?			20
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC I				
	Please check the Guidance S	Section of this SPD for the policy require	ments		
Environmental Rating of deve Non-Residential new-build (100					
BREEAM Level	Please Select	t Have you a	ttached a pre-assessm	ent to support this?	
Extensions and conversions fo BREEAM Domestic R Extensions and conversions fo	efurbishment Excellent	Have you a	ttached a pre-assessm	ent to support this?	
BREEAM Level	Please Selec	t Have you a	ttached a pre-assessm	ent to support this?	
Score awarded for En BREEAM:	vironmental Rating: Good = 0, Very Good = 4, Excellent = 8, Outstandir	ıg = 16			Subtotal 8
1B MINIMUM POLICY CO	DMPLIANCE (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.

✓ 1	
Subtotal	1

	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/sqm	✓ 6
	Reduce heat entering a building through providng/improving insulation and living roofs and walls	✓ 2
	Reduce heat entering a building through shading	3
	Exposed thermal mass and high ceilings	4
	Passive ventilation	✓ 3
	Mechanical ventilation with heat recovery	🗆 1
	Active cooling systems, i.e. Air Conditioning Unit	□ <i>o</i>
2.2 He	eat 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	□ 6
	Connection to existing heating or cooling networks powered by gas or electricity	√ 5
	Site wide CHP network powered by renewable energy	4
	Site wide CHP network powered by gas	🛛 3
	Communal heating and cooling powered by renewable energy	
	Communal heating and cooling powered by gas or electricity Individual heating and cooling	□ 1 ☑ 0
2.3 Po	Dilution: Air, Noise and Light Does the development plan to implement reduction strategies for dust emissions from construction sites?	V 2
		_
) .	Does the development plan include a biomass boiler?	-
	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?	V 1
ł.	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?	□-
	e give any additional relevant comments to the Energy Use and Pollution Section below	Subtotal 2
Each	e give any additional relevant comments to the Energy Use and Policion Section below dwelling has achieved the following: Indicative Breeam rating of "BREEAM Excellent" and an Indicative Breeam rating & Standards Level of "BREEAM Excellent"	

 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?

	e explain:				
	Each dwelling will be given details for car clubs: www.richmond.gov.uk/car_clubs Each dwelling will be given details for public transport links: www.richmond.gov.uk/public transport				
	Each dwelling will be given details for cycle routes: www.sustrans.org.uk				
Each d	welling will be given details for the best running routes: www.mapmyrunn.com/gb/richmond				
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 ✓ -			
f.	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	√ 2			
Please	e give any additional relevant comments to the Transport Section below	Subtotal			
	give any additional relevant comments to the transport Section Delow				

1 Mii			
		biodiversity from new buildings, lighting, hard surfacing and people	
	Does your developme	ent involve the loss of an ecological feature or habitat, including a loss of garden or other green space? (Indicate if yes) If so, please state how much in sqm?	<u> </u>
		in so, please state now inden in squit?	Sqiii
	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? (Indicate if yes)	
			_
.	Does your developme	ent plan to add (and not remove) any tree(s) on site? (Indicate if yes)	-12
	Diseas indicate which	features and/or behinds that your development will incompare to improve an aits bindinessity.	
d.	Please indicate which	features and/or habitats that your development will incorporate to improve on site biodiversity: Pond, reedbed or extensive native planting 6 Area provided:	sqm
		Pond, reedbed or extensive native planting 6 Area provided: An extensive green roof 5 Area provided:	sqiii sam
		An intensive green roof 4 Area provided:	sqm
		Garden space 4 Area provided: Additional native and/or wildlife friendly planting to peripheral areas 3 Area provided:	50 sqm
		Additional native and/or wildlife friendly planting to peripheral areas 3 Area provided:	sqm
		Additional planting to peripheral areas 2	sqm
		A living wall 2 Area provided:	sqm
		Bat boxes 0.5	
		A living wall 2 Area provided: Bat boxes 0.5 Bird boxes 0.5 Other 0.5	
		Other 0.5 🗹	Subtotal 4.5
معجماه	give any additional rele	vant comments to the Biodiversity Section below	Subiotal 4.
		accessarrangements shell be provided, which meets the minimum regirements for the private space is 1.5m2/bedroom	
	-		
litics	FLOODING AND DR		
litiga		ng and other impacts of climate change in the borough a high flood risk zone (Zone 3)? (Indicate if yes)	□-2
	is your site located in	Have you submitted a Flood Risk Assessment? (Indicate if yes)	□-2 □ -
) .	Which of the following	g measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)	
		Store rainwater for later use	▼ 5 ▼ 3 ■ 4
		Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	√ 3
		Attenuate rainwater in ponds or open water features	
		Store rainwater in tanks for gradual release to a watercourse	√ 3 □ 2
		Discharge rainwater directly to watercourse Discharge rainwater to surface water drain	
		Discharge rainwater to combined sewer	
с.	Please give the chang		-20 sqm
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	Please provide details	Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal: s of the permeable surfacing below please represent a loss in permeable area as a	-20 sqm
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2lease	Please provide details give any additional rele datanding areas will be p IMPROVING RESOU duce waste generated Will demolition be req Does your site have a ducing levels of water Will the following mea	Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal: s of the permeable surfacing below permeable surfacing below permeable and the inclusion of Soakaways-SUDS (Sustainable Urban Drainage Seytem) will control the water run-off from the re received of the permeable and the inclusion of Soakaways-SUDS (Sustainable Urban Drainage Seytem) will control the water run-off from the re received of the permeable and the inclusion of Soakaways-SUDS (Sustainable Urban Drainage Seytem) will control the water run-off from the re received of the permeable and the inclusion of Soakaways-SUDS (Sustainable Urban Drainage Seytem) will control the water run-off from the re received of the permeable of the sum of the site permeable and recycling uired on your site prior to construction? [Points will only be awarded if 10% or greater of demolition waste is reused/recycled] If so, what percentage of demolition waste will be reused in the new development? What percentage of demolition waste will be recycled? If you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Are plans in place to include composting on site? Waste Issues of water officient taps, shower heads etc Use of water efficient taps. Shower heads etc Use of water efficient taps	-20 sqm a negative number Subtotal 11 poofs. ↓ 1 25 % 75 % 1 2 2 1 1 ↓ 1 ↓ 1 ↓ 1 ↓ 1 ↓ 1 ↓ 1 ↓
1 Re	Please provide details give any additional rele datanding areas will be p IMPROVING RESOU duce waste generated Will demolition be req Does your site have a ducing levels of water Will the following mea give any additional rele 5 litre dual flush toilets	Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal: s of the permeable surfacing below want comments to the Flooding and Drainage Section below bermeable and the inclusion of Soakaways-SUDS (Sustainable Urban Drainage Ssytem) will control the water run-off from the re RCE EFFICIENCY and amount disposed of by landfill though increasing level of re-use and recycling uired on your site prior to construction? [Points will only be awarded if 10% or greater of demolition waste is reused/recycled] If so, what percentage of demolition waste will be reused in the new development? What percentage of demolition waste will be recycled? Inv contaminated land? Have you submitted a nemediate the contamination? Are plans in place to include composing on site? Waste usures of water conservation be incorporated into the development? (Please tick all that apply): Fitting of water efficient taps, shower heads etc Use of water efficient taps shower heads etc use of water eff	-20 sqm a negative number Subtotal 11 poofs. ↓ 1 25 % 75 % 1 2 2 1 1 ↓ 1 ↓ 1 ↓ 1 ↓ 1 ↓ 1 ↓ 1 ↓
1 Re	Please provide details give any additional rele datanding areas will be p IMPROVING RESOU duce waste generated Will demolition be req Does your site have a ducing levels of water Will the following mea	Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal: s of the permeable surfacing below want comments to the Flooding and Drainage Section below bermeable and the inclusion of Soakaways-SUDS (Sustainable Urban Drainage Ssytem) will control the water run-off from the re RCE EFFICIENCY and amount disposed of by landfill though increasing level of re-use and recycling uired on your site prior to construction? [Points will only be awarded if 10% or greater of demolition waste is reused/recycled] If so, what percentage of demolition waste will be reused in the new development? What percentage of demolition waste will be recycled? Inv contaminated land? Have you submitted a nemediate the contamination? Are plans in place to include composing on site? Waste usures of water conservation be incorporated into the development? (Please tick all that apply): Fitting of water efficient taps, shower heads etc Use of water efficient taps shower heads etc use of water eff	-20 sqm a negative number Subtotal 11 poofs. ↓ 1 25 % 75 % 1 2 2 1 1 ↓ 1 ↓ 1 ↓ 1 ↓ 1 ↓ 1 ↓ 1 ↓

7	ACCESSIBILITY			
7.1		ble and long	term use of structures	
a.			If it meet the requirements of the nationally described space standard for internal space and layout?	√ 1
ч.	in the development is i		ds are not met, in the space below, please provide details of the functionality of the internal space and layout	
		ii tile stariuai	us are not met, in the space below, please provide details of the functionality of the internal space and layout	
AND				
b.	If the development is r	residential. wi	II it meet Building Regulation Reguirement M4 (2) 'accessible and adaptable dwellings'?	2
			net, in the space below, please provide details of any accessibility measures included in the development.	—
				_
			idential developments, are 10% or more of the units in the development to Building Regulation Requirement	1
		M4 (3) 'wheel	Ichair user dwellings'?	
OR				_
C.	If the development is r		al, does it comply with requirements included in Richmond's Design for Maximum Access SPG	2
			de details of the accessibility measures specified in the Maximum Access SPG that will be included in the	
		development		_
				Subtotal 1
Plance	aive ony additional relay	ant commonto	to the Design Standards and Accessibility Section below	Subtotal
			esign can be met within the flats	
All Of u	ie internal requirements in	or inclusive De	sign can be met within the hats	
	etainable Construction	Chacklist- Sc	oring Matrix for New Construction (Non-Residential and domestic refurb) TOT	AL 64.5
LDROTOL	Score	Rating	Significance	AL 04.5
	80 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development	
	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	
	00 01 1000	7702		
	stainable Construction	Checklist- Sc	oring Matrix for New Construction Residential new-build	
LDROTOL				
	Score	Rating	Significance	
	81 or more	A++	Project strives to achieve highest standard in energy efficient sustainable development	
	64-80		Project strives to achieve highest standard in energy efficient sustainable development	
		A+		
	55-63	A+ A	Makes a major contribution towards achieving sustainable development in Richmond	
			Makes a major contribution towards achieving sustainable development in Richmond	
	35-54	A B	Makes a major contribution towards achieving sustainable development in Richmond Helps to significantly improve the Borough's stock of sustainable developments	
	35-54 20-34	A B C	Makes a major contribution towards achieving sustainable development in Richmond Helps to significantly improve the Borough's stock of sustainable developments Minimal effort to increase sustainability beyond general compliance	
	35-54	A B	Makes a major contribution towards achieving sustainable development in Richmond Helps to significantly improve the Borough's stock of sustainable developments	
	35-54 20-34	A B C	Makes a major contribution towards achieving sustainable development in Richmond Helps to significantly improve the Borough's stock of sustainable developments Minimal effort to increase sustainability beyond general compliance	
Authorisa	35-54 20-34 19 or less	A B C FAIL	Makes a major contribution towards achieving sustainable development in Richmond Helps to significantly improve the Borough's stock of sustainable developments Minimal effort to increase sustainability beyond general compliance Does not comply with SPD Policy	
	35-54 20-34 19 or less	A B C FAIL	Makes a major contribution towards achieving sustainable development in Richmond Helps to significantly improve the Borough's stock of sustainable developments Minimal effort to increase sustainability beyond general compliance Does not comply with SPD Policy	
	35-54 20-34 19 or less	A B C FAIL	Makes a major contribution towards achieving sustainable development in Richmond Helps to significantly improve the Borough's stock of sustainable developments Minimal effort to increase sustainability beyond general compliance Does not comply with SPD Policy to the best of my knowledge	12/2019