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.

	All Saints Church and No 44 The Avenue	Application No. (if known):	
Address (include. postcode) Completed by:	Thae Avenue Hampton TW12 3RG		
For Non-Residential Size of development (m2)	471sqm	For Residential Number of dwellings 6	
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)		
	sment been submitted that demonstrates the expected energy and carbo asures, including the feasibility of CHP/CCHP and community heating s		YES
	eduction oxide emissions reduction against a Building Regulations Part L (2013) I London Plan Policy 5.2 (2015) require a 35% reduction in CO_2 emission		35
5	ite CO2 emissions saved through renewable energy installation?		48
5	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMEN	· · · · · · · · · · · · · · · · · · ·	48
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1A MINIMUM POLICY C Environmental Rating of dev Non-Residential new-build (10 BREEAM Level Extensions and conversions fo BREEAM Domestic F Extensions and conversions fo	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMEN Please check the Guidance Section of this Si elopment: Osqm or more) GOOD or residential dwellings refurbishment Please Select Please Select	Have you attached a pre-assessment to support the Have you attached a pre-assessment to sup	nis? 🖸

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

2.1 N	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		
	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	I 3	
	Mechanical ventilation with heat recovery	🗆 1	
	Active cooling systems, i.e. Air Conditioning Unit	0	
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	□ <u>6</u>	
	Connection to existing heating or cooling networks powered by gas or electricity	5 5 3 2 1 7 0	
	Site wide CHP network powered by renewable energy		
	Site wide CHP network powered by gas	🗌 <u>3</u>	
	Communal heating and cooling powered by renewable energy	2	
	Communal heating and cooling powered by gas or electricity	🗆 1	
	Individual heating and cooling	√ 0	
2.3 Po 1.	Dilution: Air, Noise and Light Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	
) .	Does the development plan include a biomass boiler?	П-	
	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?	<u> 3</u>	
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	√ 1	
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	
leas	e 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:	
b.	Does your development include charging point(s) for electric cars?	□ <u>2</u>
с.	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.	□ <i>2</i>
Please	give any additional relevant comments to the Transport Section below	Subtotal
	<u> </u>	

4	BIODIVERSITY	
4.1 a.	Minimising the threat to biodiversity from new buildings, lighting, hard surfacing and people Does your development 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?	-2 sqm
b.	Does your development 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)	-1- -1
с.	Does your development 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 incorporate to improve on site biodiversity: Area provided: Pond, reedbed or extensive native planting 6 Area provided: An extensive green roof 4 Area provided: An intensive green roof 4 Area provided: Garden space 4 Area provided: Additional native and/or wildlife friendly planting to peripheral areas 3 ✓ Area provided: Additional planting to peripheral areas 2 Area provided: Area provided: Bit boxes 0.5 0 0.5 0	sqm sqm sqm sqm sqm sqm sqm Subtotal
Plea	ase give any additional relevant comments to the Biodiversity Section below	
5 5 1 Miti	FLOODING AND DRAINAGE gating the risks of flooding and other impacts of climate change in the borough	
a.	Is your site located in a high flood risk zone (Zone 3)? (Indicate if yes) Have you submitted a Flood Risk Assessment? (Indicate if yes)	□-2 □ -
b.	Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply) Store rainwater for later use Use of infiltration techniques such as porous surfacing materials to allow drainage on-site Attenuate rainwater in ponds or open water features Store rainwater in tanks for gradual release to a watercourse Discharge rainwater directly to watercourse Discharge rainwater to combined sewer	5 3 4 3 2 1 0
C.	Please give the change in area of permeable surfacing which will result from your development proposal: Please provide details of the permeable surfacing below please represent a loss in permeable area as	sqm s a negative number Subtotal
Plea All d	ase give any additional relevant comments to the Flooding and Drainage Section below of the areas at the front of the site designated for parking will have porpous paved surfaces	
6 6.1	IMPROVING RESOURCE EFFICIENCY Reduce waste generated and amount disposed of by landfill though increasing level of re-use and recycling	
a.	Will demolition be required on your site prior to construction? [Points will only be awarded if 10% or greater of demolition waste is reused/recycled]	☑ 1
	If so, what percentage of demolition waste will be reused in the new development?	75 %
b.	What percentage of demolition waste will be recycled? Does your site have any contaminated land?	25 %
D.	Does your she have any contaminated rand? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan? Are plans in place to include composting on site?	
6.2 a.	Reducing levels of water waste Will the following measures 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 A or B rated appliances Rainwater harvesting for internal use Greywater systems Fit a water meter	 ☑ 1 ☑ 4 ☑ 4 ☑ 1 Subtotal
Plea	ase give any additional relevant comments to the Improving Resource Efficiency Section below	

7	ACCESSIBILITY				
7.1		table and long-	term use of structures		
a.			It meet the requirements of the nationally described space standard for internal space and layout?	✓ <u>1</u>	
		If the standard	ds 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	residential wil	I it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2	,
.			let, in the space below, please provide details of any accessibility measures included in the development.	— —	
			idential developments, are 100% as more of the units in the development to Building Regulation Regulation		
			dential developments, are 10% or more of the units in the development to Building Regulation Requirement chair user dwellings'?		
OR		Witeen			
с.	If the development is	non-residentia	I, does it comply with requirements included in Richmond's Design for Maximum Access SPG	<u>र</u> 2	,
			e details of the accessibility measures specified in the Maximum Access SPG that will be included in the		
		development	· · ·		
				Subtotal	5
Please	give any additional relevant	vant comments	to the Design Standards and Accessibility Section below	Subtotal	<u>ــــــــــــــــــــــــــــــــــــ</u>
	refer to the Design and				1
	-				
LBRUT Su			pring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL	40
	Score	Rating	Significance		
	80 or more 71-79	A+ A	Project strives to achieve highest standard in energy efficient sustainable development Makes a major contribution towards achieving sustainable development in Richmond		
	51-70	B	Helps to significantly improve the Borough's stock of sustainable development in Richmond		
	36-50	C	Minimal effort to increase sustainability beyond general compliance		
	35 or less	FAIL	Does not comply with SPD Policy		
	00 0/ 1000	770L			
LBRUT Su	stainable Construction	n Checklist- Sco	oring 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	В	Helps to significantly improve the Borough's stock of sustainable developments		
	20-34	С	Minimal effort to increase sustainability beyond general compliance		
	19 or less	FAIL	Does not comply with SPD Policy		
Authorisat	tion:				
		lled in this form	to the best of my knowledge		
			to the best of my knowledge		

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