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):	Land adjacent to 38-42 Hampton Road, Teddington TW11	Application No. (if known): 20/0222/FUL	
Address (include. postcode) Completed by:	Land adjacent to 38-42 Hampton Road, Teddington TW11 Ruth Pike - Energist		
For Non-Residential Size of development (m2)		For Residential Number of dwellings 14	
1 MINIMUM COMPLIAN	ICE (RESIDENTIAL AND NON-RESIDENTIAL)		
	ment been submitted that demonstrates the expected energy and carbon dioxide en sures, including the feasibility of CHP/CCHP and community heating systems? If ye		Yes
	duction xide emissions reduction against a Building Regulations Part L (2013) baseline ondon Plan Policy 5.2 (2015) require a 35% reduction in CO_2 emissions beyond Bu	ilding Regulations 2013.	35.14%
· ·	e CO2 emissions saved through renewable energy installation?		27.93%
1A MINIMUM POLICY CO	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT) Please check the Guidance Section of this SPD for the p	olicy requirements	
Environmental Rating of deve	·	may requiremente	
Non-Residential new-build (100 BREEAM Level Extensions and conversions for	Please Select	Have you attached a pre-assessment to support this?	
BREEAM Domestic Re		Have you attached a pre-assessment to support this?	
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?	
Score awarded for Env BREEAM:	vironmental Rating: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		Subtotal 0
1B MINIMUM POLICY CO	DMPLIANCE (RESIDENTIAL)		
Water Usage			
	mited to 105 litres person per day. (Excluding an allowance 5 litres per person per d ator for new dwellings have been submitted.	ay for external water consumption). Calculations using the	☑ 1
			Subtotal 1

	eed for Cooling	Scor	е
	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		0
.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		
	row have the realing 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		<i>4</i> <i>3</i>
	Communal heating and cooling powered by renewable energy		2
	Communal heating and cooling powered by gas or electricity		1
	Individual heating and cooling	✓	0
	illution: 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?		-
	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.		-
	The state of the s		
	Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	П	3
	has the development aken measures to reduce existing house and eminance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation?		3
	rias the development taxen care to not create any new noise generation/natismission issues in its intended operation?	_	'
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	✓	3
	Have you attached a Lighting Pollution Report?		-
	Have you attached a Lighting Pollution Report?	Subto	- otal
	Have you attached a Lighting Pollution Report? give any additional relevant comments to the Energy Use and Pollution Section below	Subto	
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4	BIODIVERSITY	
	linimising the threat to biodiversity from new buildings, lighting, hard surfacing and people	
a.	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?	400 sqm
	Decreased development for the second of contract (A) (A) (I of the text (A))	
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)	
	ii so, has a tree report been provided in support of your application? (Indicate if yes)	
c.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)	☑
C.	Does your development plan to add (and not remove) any free(s) on site? (indicate if yes)	_
d.	Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity:	
u.	Pond, reedbed or extensive native planting Pond, reedbed or extensive native planting	sgm
	An extensive green roof 5 Area provided:	sqm
	An intensive green roof 4 Area provided:	sqm
	Garden space 4 Area provided: 467.2	sqm
	Additional native and/or wildlife friendly planting to peripheral areas 3 🗹 Area provided: 150	sqm
	Additional planting to peripheral areas 2 Area provided: 150	sqm
	A living wall 2 Area provided:	sqm
	Bat boxes 0.5 🖸	Sqiii
	Bird boxes 0.5 ☑	
	Other 0.5	
		Subtotal 8
Place	se give any additional relevant comments to the Biodiversity Section below	oubtotuo
1 1003	to give any additional relevant comments to the blodiversity occasion below	
-		
5	FLOODING AND DRAINAGE	
	ating 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)	□ -2
	Have you submitted a Flood Risk Assessment? (Indicate if yes)	
b.	Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)	-
	Store rainwater for later use	☑ 5
	Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	□ 3
	Attenuate rainwater in ponds or open water features	□ 4
	Store rainwater in tanks for gradual release to a watercourse	□ 3
	Discharge rainwater directly to watercourse	□ 2 □ 1
	Discharge rainwater to surface water drain	
	Discharge rainwater to combined sewer	☑ 0
c.	Please give the change in area of permeable surfacing which will result from your development proposal: -400	sqm
	Please provide details of the permeable surfacing below please represent a loss in permeable area as a negative numb	
5.		Subtotal 5
Pleas	e give any additional relevant comments to the Flooding and Drainage Section below	
6	IMPROVING RESOURCE EFFICIENCY	
6.1 Re	educe 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?	%
	What percentage of demolition waste will be recycled?	%
		_
b.	Does your site have any contaminated land?	□ 1
	Have you submitted an assessment of the site contamination?	□ 2
	Are plans in place to remediate the contamination?	□ 2
	Have you submitted a remediation plan?	□ 1
	Are plans in place to include composting on site?	☑ ¹
6.2 Re	educing levels of water waste	
a.	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	✓ 1
	Use of water efficient A or B rated appliances	✓ 1
	Rainwater harvesting for internal use	□ 4
	Greywater systems	□ 4
	Fit a water meter	✓ 1
		Subtotal 4
Pleas	e give any additional relevant comments to the Improving Resource Efficiency Section below	

		residential, wi	term use of structures If it meet the requirements of the nationally described space standard for internal space and layout?		☑ 1
		If the standar	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		Il it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?		v 2
ь.	ii die development is		net, in the space below, please provide details of any accessibility measures included in the development.		
OR			idential developments, are 10% or more of the units in the development to Building Regulation Requirement chair user dwellings'?		¥ 1
	If the development is		al, does it comply with requirements included in Richmond's Design for Maximum Access SPG de details of the accessibility measures specified in the Maximum Access SPG that will be included in the		□ 2
		историнени			
				6.	ubtota
Please g	give any additional relev	vant comments	to the Design Standards and Accessibility Section below	31	иріоіа
				_	ubiota
	stainable Construction	ı Checklist- Sc	oring Matrix for <i>New Construction</i> (Non-Residential and domestic refurb)	TOTAL	ubicia
	stainable Construction Score	n Checklist- Sc	oring Matrix for <i>New Construction</i> (Non-Residential and domestic refurb) Significance	_	ubicia
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