LBRUT Sustainable Construction Checklist - June 2020

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 loftor 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):	St Mary's Redevelopment of 'R' Building	Application No. (if known):		
Address (include. postcode)	St Mary's University, Waldegrave Road, Strawberry Hill, Twickenham TW1 4SX			
Completed by:	Ridge & Partners LLP			
For Non-Residential		For Residential		
Size of development (m2)	1419 (Building Area)	Number of dwellings		
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)			
Energy Assessment				
	sment been submitted that demonstrates the expected energy and carbon dioxide e easures, including the feasibility of CHP/CCHP and community heating systems? If y		TRUE	
Carbon Dioxide emissions re	eduction			
What is the on site ca	arbon dioxide emissions reduction against a Building Regulations Part L (2013) base Draft London Plan Policy 9.2.5 require a 35% onsite reduction in CO 2 emissions be		45.95 %	This is against 2021 Building Regulations
FOILLY LF 22 B. and L	Draft London Fian Folicy 9.2.5 require a 35% onsite reduction in CO_2 emissions be	yonu bunung Regulations 2013.		
	ge reduction from efficiency measures alone Draft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions		18.81 %	
	gulations 2013 from efficiency measures for residential and 15% for non-residential.			
Percentage of total s	ite CO2 emissions saved through renewable energy installation?		27.14 %	
What is the total remain	aining carbon to be offset		3.5 Tonne	
	Draft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon	after offsetting.		
Are remaining emissi	ions going to be offset through offset fund payment in accordance with current guide	lines issued for the cost per tonne of CO2?	TRUE	
What is the total pred			9975 £	
The London Plan set	is this as £95/tonne per year over 30 years, this should be updated based on As Bui	d calculations.		
1A MINIMUM POLICY C	COMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)			
Environmental Dating of day	Please check the Guidance Section of this SPD for the po	olicy requirements		
Environmental Rating of dev Non-Residential new-build (10	00sqm or more)			
BREEAM Level Excellent required under Polic	Excellent Excellent	Have you attached a pre-assessment to support this?		TRUE
Extensions and conversions for BREEAM Domestic F		Have you attached a pre-assessment to support this?		FALSE
Excellent required under Polic	cy LP22 A 4	have you attached a pre-assessment to support this:		TALSE
Extensions and conversions for BREEAM Level	or non-residential buildings Please Select	Have you attached a pre-assessment to support this?		FALSE
Excellent required under Poli	cy LP 22			
Coore superior for Fr	n viscom entel Detinen		Subtatal	
Score awarded for Er BREEAM:	Good = 0 , Very Good = 4, Excellent = 8 , Outstanding = 16		Subtotal 8	
1B MINIMUM POLICY C	COMPLIANCE (RESIDENTIAL)			
Water Usage			Score	
Internal water usage	after gray/rainwater systems limited to 105 litres person per day. (Excluding an allow	ance 5 litres per person per day for external water		
	lations using the water efficiency calculator for new dwellings have been submitted. r new dwellings under Policy LP22 A 2 1051/p/d required under Draft London Plan Po	blicy SI5	1	FALSE
	- · ·		Subtotal 0	

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.1 N	eed for Cooling	Score	
	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	Please Selec
		2	TRUE
	Reduce heat entering a building through proving/improving insulation and living roofs and walls Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	TRUE
	Reduce heat entering a building through shading	3	FALSE
	Exposed thermal mass and high ceilings		
	Passive ventilation	3	FALSE
	Mechanical ventilation with heat recovery	1	TRUE
	Active cooling systems, i.e. Air Conditioning Unit	0	TRUE
	See Draft London Plan SI4		
	eat Generation		
	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy SI3) Tick all heating and cooling systems that will be used in the development:	Score	
	Connection to existing heating or cooling networks powered by renewable energy	6	FALSE
	Connection to existing heating or cooling networks powered by terremaine energy	5	FALSE
	Site vide CHP network powered by renewable energy	4	FALSE
	Site wide CHP network powered by gas	3	FALSE
	Communal heating and cooling powered by renewable energy	2	FALSE
	Communal heating and cooling powered by gas or electricity	1	FALSE
	Individual heating and cooling powered by gub of clouding	0	TRUE
	See Draft London Plan SI3	Ŭ	
.3 Pc	Diution: Air, Noise and Light		
	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	TRUE
	Does the development plan to include a biomass boiler?		FALSE
	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 complete the information request form found		
	on the Richmond website.		
	Has an air quality impact assessment been provided		FALSE
	If yes, has 'Emissions Neutral' been achieved	1	FALSE
	If yes, have occupants of new development been protected from existing pollution	1	FALSE
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1	FALSE
	see Policy LP 10		
	Please tick only one option below		
	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	3	FALSE
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1	TRUE
	see Policy LP 10		
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	FALSE
	see Policy LP 10		
	Have you attached a Lighting Pollution Report?	-	
		Subtotal	9
lease	e give any additional relevant comments to the Energy Use and Pollution Section below		

3. TR	ANSPORT		
3.1 P	rovision for the safe efficient and sustainable movement of people and goods		
a.	Does your development provide opportunities for occupants to use innovative travel technologies?		FALSE
Pleas	e explain:		
		Score	
	Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to		
b.	operate satisfactorily in the future expectation of all vehicles being electrically powered?	2	FALSE
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	TRUE
d.	See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement?	5	FALSE
u.	For smaller developments ONLT. Have you provided a mansport statement?	5	FALSE
e.	Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3)	2	TRUE
	If so, for how many bicycles?	14	
	Is this shown on the site plans?	<u>_</u>	TRUE
	See Local Plan Appendix 3		
f.	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2	FALSE
Disco		Subtotal 7	
Pleas	e give any additional relevant comments to the Transport Section below		

Does your development involve the loss of an ecological feature or habitat, including a loss of If so, please state how much in sqm?	garden or othe	r green space? (Indicate if yes)	-2 sqm	FALSE
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? (I	ndicate if yes)			TRUE TRUE
Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)				TRUE
Please indicate which features and/or habitats that your development will incorporate to impro				
Pond, reedbed or extensive native planting	6	Area provided:	sqm	FALSE
An extensive green roof An intensive green roof	5	Area provided: Area provided:	39.5 sqm	TRUE
An intensive green root Garden space	4	Area provided: Area provided:	371 sqm	FALSE
Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:	sqm	TRUE
Additional planting to peripheral areas	2	Area provided:	sqm	TRUE
A living wall	2	Area provided:	sqm	FALSE
Bat boxes	0.5		*4	FALSE
Bird boxes	0.5			FALSE
Swift boxes	0.5			FALSE
Other	0.5			FALSE
Does your development use at least 70% of available roof plate as green/brown roof				FALSE
Policy LP 17 requires 70%			I.	FALSE
			Subtotal 14	ជ

	5 _	FLOODING AND DRAINAGE		
		g 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	FALSE
		Have you submitted a Flood Risk Assessment? (Indicate if yes)		FALSE
	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	FALSE
		Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	3	TRUE
		Attenuate rainwater in ponds or open water features	4	FALSE
		Store rainwater in tanks for gradual release to a watercourse	3	FALSE
		Discharge rainwater directly to watercourse	2	FALSE
		Discharge rainwater to surface water drain	1	TRUE
		Discharge rainwater to combined sewer	0	FALSE
		Have you submitted a Drainage Statement (Indicate if yes)		TRUE
		See Policy LP 21 and Draft London Plan SL 13		
	C.	Please give the change in area of permeable surfacing which will result from your development proposal:	982.5 sqm	
		Please provide details of the permeable surfacing below please represent a loss in permeable area a		
	Disco		Subtotal 4	
1		ive any additional relevant comments to the Flooding and Drainage Section below	read with a shatrate of minimum a stilled	
		of permeable surfacing: 162.4 m2 semi natural vegetation, 371 m2 intensive green roof or vegetation over structure, 39.5 m2 extensive green of 80mm, 100 m2 groundcover planting, 51.6 m2 amenity grassland, and 258 m2 permeable paving. The Drainage Statement will be encomp		
		to commit, to mig ground over planning, or o mig amening grassland, and goo mig permeasible paving. The plannang statement will be encompleted and an approximate the root area is to drain to an existing surface water sever, however, this is a fraction of what was previously discharging		
	r artificio	the building is to drain to a geo-cellular soakaway located beneath the sports pitch.	g to this private sewer. The main balk of	
	6	MPROVING RESOURCE EFFICIENCY		
	6.1 Red	ce 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/recycl	led] 1	TRUE
		If so, what percentage of demolition waste will be reused in the new development?	0 %	
		What percentage of demolition waste will be recycled?	72.4 %	
		what percentage of demonstor waste will be recycled :	/2.4 /0	
	b.	Does your site have any contaminated land?	1	FALSE
		Have you submitted an assessment of the site contamination?	2	FALSE
		Are plans in place to remediate the contamination?	2	FALSE
		Have you submitted a remediation plan?	1	FALSE
		Are plans in place to include composting on site?	1	FALSE
	C.	Will a waste management plan and facilities be in place in line with Policy LP24	Yes	
		cing levels of water waste		
	a.	Will the following measures of water conservation be incorporated into the development? (Please tick all that apply):		TOUE
		Fitting of water efficient taps, shower heads etc	1	TRUE
		Use of water efficient A or B rated appliances Rainwater harvesting for internal use	1 4	TRUE FALSE
		Greywater systems	4 4	FALSE
		Greywatel systems Fit a water meter	4	TRUE
			1	INCL
			Subtotal 3	
	Please o	ive any additional relevant comments to the Improving Resource Efficiency Section below		

-	ACCESSIBILITY						
7	ACCESSIBILITY						
7.1 a.			term use of structures	escribed space standard for internal space and layout?		1	FALSE
a.	in the development is			by de details of the functionality of the internal space and layout?		1	FALSE
AND							
b.	If the development is	s residential, wi	I it meet Building Regulation Requirement M4	4 (2) 'accessible and adaptable dwellings'?		2	FALSE
		If this is not m	et, in the space below, please provide details	: of any accessibility measures included in the development.			
OR			dential developments, are 10% or more of the M4 (3) 'wheelchair user dwellings'?	e units in the development to Building Regulation		1	FALSE
C.	If the development is	s non-residentia	I, does it comply with requirements included	in Richmond's Local Plan LP1, LP28.B, LP30 & LP45		2	TRUE
		Please provid	e details of the accessibility measures specifi	ed in the Local Plan that will be included in the development			
				Please refer to the Design and Access	Statement.		
Please	give any additional rele	vant comments	to the Design Standards and Accessibility Se		Statement.	Subtotal 2	
Please	give any additional rele	evant comments	to the Design Standards and Accessibility Se		Statement.	Subtotal 2	
	Istainable Construction	n Checklist- Sc	oring Matrix for New Construction		Statement.	Subtotal 2 TOTAL 47	
	Istainable Constructio	n Checklist- Sc Rating	oring Matrix for New Construction	(Non-Residential and domestic refurb)	Statement.		
	Istainable Constructio	n Checklist- Sc Rating A+	oring Matrix for New Construction Significance Project strives to achieve highest standard i	(Non-Residential and domestic refurb)	Statement.		
	Istainable Constructio Score 84 or more 75-83	n Checklist- Sc Rating A+ A	oring Matrix for New Construction Significance Project strives to achieve highest standard i Makes a major contribution towards achievir	(Non-Residential and domestic refurb) n energy efficient sustainable development ng sustainable development in Richmond	Statement.		
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Authorisation:

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

Signature

Date