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 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):	South Worple Way	Application No. (if known):		
Address (include, postcode)	South Worple Way, East Sheen			
Completed by:	South Worple Way, Last Offeen			
	TCA			
For Non-Residential		For Residential		
Size of development (m2)		Number of dwellings 5		
1 MINIMUM COMPLIAN	ICE (RESIDENTIAL AND NON-RESIDENTIAL)			
Energy Assessment				
	ment been submitted that demonstrates the expected energy and carbon dioxide em		TRUE	
renewable energy mea	asures, including the feasibility of CHP/CCHP and community heating systems? If ye	s, please select TRUE.		
Carbon Dioxide emissions re	duction			
What is the on site car	bon dioxide emissions reduction against a Building Regulations Part L (2013) baseling	ne	36.16 %	
Policy LP 22 B. and D.	raft London Plan Policy 9.2.5 require a 35% onsite reduction in CO $_2$ emissions bey	ond Building Regulations 2013.		
What is the percentag	e reduction from efficiency measures alone		28.48 %	
	raft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions		20.10	
	ulations 2013 from efficiency measures for residential and 15% for non-residential.			
Demonstrate of Astal at	000		40.0/	
Percentage of total si	te CO2 emissions saved through renewable energy installation?		10 %	
What is the total rema	ining carbon to be offset		1 Tonne	
Policy LP 22 B. and D.	raft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon at	fter offsetting.		
Are remaining emission	ons going to be offset through offset fund payment in accordance with current guidelin	nes issued for the cost per toppe of CO22	TRUE	
, no romaning omeone	no going to so once amough once had paymont in accordance that can one galacin	iso isolate for the cost per terms of GGZ.		
What is the total predic		and a substitution of	2850 £	
i ne London Plan sets	this as £95/tonne per year over 30 years, this should be updated based on As Build	calculations.		
1A MINIMUM POLICY CO	DMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)			
	Please check the Guidance Section of this SPD for the p	policy requirements		
Environmental Rating of deve	elopment:			
Non-Residential new-build (100				
BREEAM Level Excellent required under Policy	Please Select	Have you attached a pre-assessment to support this?		Please Select:
Extensions and conversions for				
BREEAM Domestic Re		Have you attached a pre-assessment to support this?		Please Select:
Excellent required under Policy Extensions and conversions for				
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?		Please Select:
Excellent required under Policy		, , , , , , , , , , , , , , , , , , , ,		
Score awarded for En	vironmental Rating:		Subtotal 0	
BREEAM:	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		ountota. o	
1B MINIMUM POLICY CO	OMPLIANCE (RESIDENTIAL)		Score	
Water Usage			555.5	
	ffer gray/rainwater systems limited to 105 litres person per day. (Excluding an allowa	ance 5 litres per person per day for external water	,	TDUE
	tions using the water efficiency calculator for new dwellings have been submitted. new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Poli	cv SI5	1	TRUE
		•	Subtotal 1	

	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	FALSE
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	FALSE
	Reduce heat entering a building through shading	3	FALSE
	Exposed thermal mass and high ceilings	4	TRUE
	Passive ventilation	3	FALSE
	Mechanical ventilation with heat recovery	1	TRUE
	Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
	See Draft London Plan SI4		
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 \$13) 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
		5	TRUE
	Connection to existing heating or cooling networks powered by gas or electricity	5	
	Site wide 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	TRUE
	Communal heating and cooling powered by gas or electricity	1	TRUE
	Individual heating and cooling	0	TRUE
	See Draft London Plan SI3		·
3 Po	llution: 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, has consolins reduced been accepted. 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	TRUE
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1	FALSE
	see Policy LP 10		
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	FALSE
	nas de development daten measures to reduce light politiquori impacts on character, residential amenity and blouversity? see Policy LP 10	3	IALSE
	see Policy LE 10 Have you attached a Lighting Pollution Report?	_	
	····· , - · · · · · · · · · · · · · · ·		
0000	give any additional relevant comments to the Energy Use and Pollution Section below	Subtotal	18
:ase	give any additional relevant comments to the Energy Ose and Politition Section below		

	ANSPORT		
1 11	rovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies?		FALSE
	Does your development provide appointment to use immovative during terminograms.		IALOL
as	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 operate		
	satisfactorily in the future expectation of all vehicles being electrically powered?	2	FALSE
	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	FALSE
	See policy LP44		
	For smaller developments ONLY: Have you provided a Transport Statement?	5	TRUE
	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?	5	
	Is this shown on the site plans?		TRUE
	See Local Plan Appendix 3		=
	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2	FALSE
		Subtotal 7	
as	e give any additional relevant comments to the Transport Section below		

4	BIODIVERSITY				
4.1 Mi	nimising 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 g	arden or other	green space? (Indicate if ves)	-2	FALSE
	If so, please state how much in sqm?		· · · · · · · · · · · · · · · · · · ·	sqm	
b.	Does your development involve the removal of any tree(s)? (Indicate if yes)				TRUE
	If so, has a tree report been provided in support of your application? (In	dicate if yes)			TRUE
C.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)				TRUE
d.	Please indicate which features and/or habitats that your development will incorporate to improve	e on site biodive	ersity:		
	Pond, reedbed or extensive native planting	6	Area provided:	sqm	FALSE
	An extensive green roof	5	Area provided:	sqm	FALSE
	An intensive green roof	4	Area provided:	sqm	FALSE
	Garden space	4	Area provided:	122 sqm	TRUE
	Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:	20 sqm	TRUE
	Additional planting to peripheral areas	2	Area provided:	20 sqm	TRUE
	A living wall	2	Area provided:	sqm	FALSE
	Bat boxes	0.5			FALSE
	Bird boxes	0.5			FALSE
	Swift boxes	0.5			FALSE
	Other	0.5			FALSE
					·
e.	Does your development use at least 70% of available roof plate as green/brown roof			1	TRUE
	Policy LP 17 requires 70%				_
				Subtotal 9	
Please	give any additional relevant comments to the Biodiversity Section below				=

	5 FLOODING AND DRAINAGE		
.1 N	Mitigating the risks of flooding and other impacts of climate change in the borough		
а	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)		TRUE
b	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	TRUE
	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	FALSE
	Discharge rainwater to combined sewer	0	TRUE
	Have you submitted a Drainage Statement (Indicate if yes)		TRUE
	See Policy LP 21 and Draft London Plan SL 13	_	
c		207 sqm	
	Please provide details of the permeable surfacing below please represent a loss in permeable area as a negative number		
	Subt	otal 8	
	Please give any additional relevant comments to the Flooding and Drainage Section below	ٽـــــــــــــــــــــــــــــــــــــ	
	rlease give any acutuounal relevant comments to the Protocol and a state of the provided for landscape maintenance. The new landscaped areas provide an increase to the permeable area.		
Ι.	The first state will be provided to the first announced and provide an invitation to the porthodox and an		
_			
e	6 IMPROVING RESOURCE EFFICIENCY		
	6.1 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	TRUE
۰	a		INOL
	If so, what percentage of demolition waste will be reused in the new development?	20 %	
	Too, must percontage of domonitor waste will be reased in the new development:	70	
	What percentage of demolition waste will be recycled?	80 %	
H	b. Does your site have any contaminated land?	1	FALSE
L	Have any our sale have any contaminated and: 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
	nave you submitted a renresidation plant? Are plans in place to include composting on site?	<u> </u>	TRUE
	As prairie in place to influence compositing on site:		INOL
_	c. Will a waste management plan and facilities be in place in line with Policy LP24	yes	
C	c. Will a waste management plan and facilities be in place in line with Policy LP24	yes	
	6.2 Reducing levels of water waste		
а	a. Will the following measures of water conservation be incorporated into the development? (Please tick all that apply): Eithing of under efficient tens, shower bend sold.	4 150	lagge Cologt:
	Fitting of water efficient taps, shower heads etc		lease Select:
	Use of water efficient A or B rated appliances		
	Rainwater harvesting for internal use		lease Select:
	Greywater systems		lease Select:
	Fit a water meter	7 PI	lease Select:
	Subt	otal 1	
F	Please give any additional relevant comments to the Improving Resource Efficiency Section below		

7	ACCESSIBILITY				
7.1	Ensure flexible adap		term use of structures		
a.		s residential, wil	lit meet the requirements of the nationally described space standard for internal space and layout?	1	TRUE
		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	s residential. wil	lit meet Building Regulation Requirement M4 (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.		
			Will comply with Part M4 (1)		
		For major res	dential developments, are 10% or more of the units in the development to Building Regulation Requirement	1	FALSE
			chair user dwellings'?	'	IALUL
OR		(0) ₩11661	contraction arounds.		
C.	If the development is	s non-residentia	il, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2	FALSE
			,,	_	
		Please provid	e details of the accessibility measures specified in the Local Plan that will be included in the development		
		•			
				0	
Diversi			A the Decision Observation and Associate Who October helders	Subtotal 1	
Please	give any additional rele	vant comments t	o the Design Standards and Accessibility Section below		
BRUT St	ustainable Constructio	n Checklist- Sc	oring Matrix for <i>New Construction</i> (Non-Residential and domestic refurb)	TOTAL 45	ı
BRUT Su	ustainable Construction	n Checklist- Sc	oring Matrix for <i>New Construction</i> (Non-Residential and domestic refurb) Significance	TOTAL 45	ı
BRUT Su				TOTAL 45	1
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