## **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):	3 Duke Street	Application No. (if known):		
Address (include. postcode) Completed by:				
For Non-Residential Size of development (m2)		For Residential Number of dwellings		
1 MINIMUM COMPLIAN	ICE (RESIDENTIAL AND NON-RESIDENTIAL)			
	sment been submitted that demonstrates the expected energy and carbon dioxide em asures, including the feasibility of CHP/CCHP and community heating systems? If yes		TRUE	
	duction rbon dioxide emissions reduction against a Building Regulations Part L (2013) baselin raft London Plan Policy 9.2.5 require a 35% onsite reduction in CO <sub>2</sub> emissions beyon		77 %	
Policy LP 22 C. and Di	e reduction from efficiency measures alone traft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions ulations 2013 from efficiency measures for residential and 15% for non-residential.		21 %	
Percentage of total site	te CO2 emissions saved through renewable energy installation?		56 %	
	ining carbon to be offset rraft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon aft	iter offsetting.	0.7 Tonne	
Are remaining emission	ons going to be offset through offset fund payment in accordance with current guidelin	nes issued for the cost per tonne of CO2?	FALSE	
	this as £95/tonne per year over 30 years, this should be updated based on As Build	calculations.	£	
1A MINIMUM POLICY CO	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)	U		
Environmental Rating of deve	Please check the Guidance Section of this SPD for the pol	incy requirements		
Non-Residential new-build (100 BREEAM Level Excellent required under Policy	Osqm or more) Good LP22 A 3	Have you attached a pre-assessment to support this?		FALSE
Extensions and conversions for BREEAM Domestic Re Excellent required under Policy Extensions and conversions for	efurbishment Good	Have you attached a pre-assessment to support this?		FALSE
BREEAM Level Excellent required under Policy	Good	Have you attached a pre-assessment to support this?		FALSE
Score awarded for Env BREEAM:	vironmental Rating: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		Subtotal 0	
1B MINIMUM POLICY CO	DMPLIANCE (RESIDENTIAL)		Score	
consumption). Calculate	after gray/rainwater systems limited to 105 litres person per day. (Excluding an allowar titions using the water efficiency calculator for new dwellings have been submitted. new dwellings under Policy LP22 A 2 105/p/d required under Draft London Plan Police		1 Subtotal 1	TRUE

	IERGY USE AND POLLUTION		
	Need 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	TRUE
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	FALSE
	Reduce heat entering a building through shading	3	TRUE
	Exposed thermal mass and high ceilings	4	TRUE
	Passive ventilation	3	TRUE
	Mechanical ventilation with heat recovery	1	TRUE
	Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
	See Draft London Plan Si4		·-
2.2 H	leat Generation		
b.	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 gas or electricity	5	FALSE
	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	FALSE
	Individual heating and cooling	0	FALSE
	See Draft London Plan SI3		
2.3 P	Pollution: Air, Noise and Light		
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	Please Select:
b.	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.		
C.	Has an air quality impact assessment been provided		Please Select:
	If yes, has 'Emissions Neutral' been achieved	1	Please Select:
	If yes, have occupants of new development been protected from existing pollution	1	Please Select:
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1	Please Select:
	see Policy LP 10	•	. 10000 001001.
d.	Please tick only one option below		
u.	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	3	Please Select:
	has the development taken care to not create any new noise and enhance are existing soundscape of the site?  Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1	Please Select:
	see Policy LP 10	•	r lease select.
	Use the development teles programs to reduce light cellution impacts on absorber, residential execution and hindingsis of	3	Please Select:
e.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Policy LP 10	3	Please Select:
f.	Have you attached a Lighting Pollution Report?	-	
		Subtotal 1	19
Pleas	se give any additional relevant comments to the Energy Use and Pollution Section below		_
	and the state of t		

3. IRA	ANSPORT CONTROL OF THE PROPERTY OF THE PROPERT		
3.1 Pro	ovision 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 Select:
Please	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	Please Select:
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	Please Select:
	See policy LP44		
d.	For smaller developments ONLY: Have you provided a Transport Statement?	5	FALSE
			D. O. I.
e.	Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3)	2	Please Select:
	If so, for how many bicycles?		DI 0.1.
	Is this shown on the site plans?		Please Select:
	See Local Plan Appendix 3		DI 0.1.
t.	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2	Please Select:
ъ.		Subtotal 0	
Please	give any additional relevant comments to the Transport Section below		

	BIODIVERGITT					
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	garden or othe	r green space? (Indicate if yes)		-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)					FALSE
	If so, has a tree report been provided in support of your application? (In	ndicate if yes)				Please Select:
c.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)					FALSE
d.	Please indicate which features and/or habitats that your development will incorporate to improve	e on site biod				
	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:		sqm	FALSE
	Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:		sqm	FALSE
	Additional planting to peripheral areas	2	Area provided:		sqm	FALSE
	A living wall	2	Area provided:		sqm	FALSE
	Bat boxes	0.5				Please Select:
	Bird boxes	0.5				Please Select:
	Swift boxes	0.5				Please Select:
	Other	0.5				Please Select:
e.	Does your development use at least 70% of available roof plate as green/brown roof				1	FALSE
	Policy LP 17 requires 70%					
				Subto	al 0	
Please	e give any additional relevant comments to the Biodiversity Section below				_	

	5	FLOODING AND DRAINAGE		
5.1	Mitigati	ng 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)		TRUE
	b.	Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)		
	D.	willion of the following measures of the drainage interacting are incorporated onto your site: (tick air that appry)  Store rainwater for later use	<b>.</b>	Diagram Calcate
			5	Please Select:
		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	Please Select:
		Store rainwater in tanks for gradual release to a watercourse	3	Please Select:
		Discharge rainwater directly to watercourse	2	Please Select:
		Discharge rainwater to surface water drain	1	Please Select:
		Discharge rainwater to combined sewer	0	Please Select:
		Have you submitted a Drainage Statement (Indicate if yes)	· ·	TRUE
		See Policy LP 21 and Draft London Plan St. 13		INOL
			0 sam	
	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 a negative		
			Subtotal 3	
	Please 9	give any additional relevant comments to the Flooding and Drainage Section below	·	
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L				
	_			
	6	IMPROVING RESOURCE EFFICIENCY		
		uce 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	Please Select:
		<u></u>		
		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?	4	Please Select:
	D.		<u>'</u>	
		Have you submitted an assessment of the site contamination?	2	Please Select:
		Are plans in place to remediate the contamination?	2	Please Select:
		Have you submitted a remediation plan?	1	Please Select:
		Are plans in place to include composting on site?	1	Please Select:
		Are plane in place to include composting on site.	•	r icase ocicot.
		Will a weets management plan and facilities he in place in line with Delicut D24		
	c.	Will a waste management plan and facilities be in place in line with Policy LP24		
		ucing 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	TRUE
		Use of water efficient A or B rated appliances	1	TRUE
		Rainwater harvesting for internal use	4	Please Select:
		Grewater systems	4	Please Select:
		Fit a water meter	7	Please Select:
		rit a water meter	1	riease Select:
			Subtotal 2	
	Please of	give any additional relevant comments to the Improving Resource Efficiency Section below		
ſ				

7	ACCESSIBILITY				
7.1			erm use of structures		
a.	If the development is		it meet the requirements of the nationally described space standard for internal space and layout?	1	Please Select:
		If the standard	Is 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	it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2	Please Select:
			et, in the space below, please provide details of any accessibility measures included in the development.		
			dential developments, are 10% or more of the units in the development to Building Regulation Requirement	1	FALSE
0.0		M4 (3) wheeld	chair user dwellings'?		
OR	If the development !-		I does it complywith requirements included in Dishmondia Local Dish I D00 B I D00 B I D00 B	2	FALSE
c.	ii trie development is	non-residentia	I, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2	FALSE
		Please provide	e details of the accessibility measures specified in the Local Plan that will be included in the development		
		i lease providi	s details of the accessionity measures specified in the Local Flan that will be included in the development		
				Subtotal 0	
Please	give any additional relev	ant comments t	o the Design Standards and Accessibility Section below		
BRUT Su			oring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL 25	
BRUT Su	Score	Rating	Significance	TOTAL 25	
BRUT Su	Score 84 or more	Rating A+	Significance Project strives to achieve highest standard in energy efficient sustainable development	TOTAL 25	
BRUT Su	Score 84 or more 75-83	Rating A+ A	Significance Project strives to achieve highest standard in energy efficient sustainable development Makes a major contribution towards achieving sustainable development in Richmond	TOTAL 25	
BRUT Su	Score 84 or more 75-83 56-74	Rating A+ A B	Significance Project strives to achieve highest standard in energy efficient sustainable development Makes a major contribution towards achieving sustainable development in Richmond Helps to significantly improve the Borough's stock of sustainable developments	TOTAL 25	
BRUT Su	Score 84 or more 75-83 56-74 40-55	Rating A+ A B C	Significance Project strives to achieve highest standard in energy efficient sustainable development 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	TOTAL 25	
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	Score 84 or more 75-83 56-74 40-55 39 or less	A+ A B C FAIL	Significance Project strives to achieve highest standard in energy efficient sustainable development 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	TOTAL 25	
	Score   84 or more   75-83   56-74   40-55   39 or less	Rating A+ A B C FAIL	Significance Project strives to achieve highest standard in energy efficient sustainable development 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  ring Matrix for New Construction  Residential new-build	TOTAL 25	
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	Score 84 or more 75-83 56-74 40-55 39 or less statinable Construction Score 85 or more 68-84 59-67 39-58	Rating A+ A B C FAIL  Checklist- Scc Rating A++ A+ B	Significance	TOTAL 25	
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