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): George Street - New Build Application No. (if known):	
Address (include, postcode) 9-10 George Street, London, TW9 1JY Completed by:	
ounpictu by.	
For Non-Residential	
Size of development (m2) 0 Number of dwellings 2	
1 MINIMUM COMPLIANCE (RESIDENTIAL AND NON-RESIDENTIAL)	
Energy Assessment Has an energy assessment been submitted that demonstrates the expected energy and carbon dioxide emissions saving from energy efficiency and renewable energy measures, including the feasibility of CHP/CCHP and community heating systems? If yes, please select TRUE.	TRUE
Carbon Dioxide emissions reduction What is the on site carbon dioxide emissions reduction against a Building Regulations Part L (2013) baseline Policy LP 22 B. and Draft London Plan Policy 9.2.5 require a 35% onsite reduction in CO ₂ emissions beyond Building Regulations 2013.	35.94 %
What is the percentage reduction from efficiency measures alone Policy LP 22 C. and Draft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions beyond Building Regulations 2013 from efficiency measures for residential and 15% for non-residential.	3.42 %
Percentage of total site CO2 emissions saved through renewable energy installation?	32.7 %
What is the total remaining carbon to be offset Policy LP 22 B. and Draft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon after offsetting.	0 Tonne
Are remaining emissions going to be offset through offset fund payment in accordance with current guidelines issued for the cost per tonne of CO2?	FALSE
What is the total predicted cost of offset? The London Plan sets this as £95/tonne per year over 30 years, this should be updated based on As Build calculations.	£
1A MINIMUM POLICY COMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)	
Please check the Guidance Section of this SPD for the policy requirements	
Environmental Rating of development: Non-Residential new-build (100sgm or more)	
BREEAM Level Please Select Have you attached a pre-assessment to support the Excellent required under Policy LP22 A 3	s?
Extensions and conversions for residential dwellings BREEAM Domestic Refurbishment Please Select Have you attached a pre-assessment to support the Excellent required under Policy LP2Z A 4	is?
Extensions and conversions for non-residential buildings BREEAM Level Have you attached a pre-assessment to support the Excellent required under Policy LP 22	is?
Score awarded for Environmental Rating:BREEAM:Good = 0 , Very Good = 4 , Excellent = 8 , Outstanding = 16	Subtotal 0
1B MINIMUM POLICY COMPLIANCE (RESIDENTIAL)	Score
Water Usage	Score
Internal water usage after gray/rainwater systems 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
110l/p/d Required for new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Policy SI5	Subtotal 1

	ERGY USE AND POLLUTION eed for Cooling	Score
ı.	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 providing/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
	See Draft London Plan SI4	
2 H	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
	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	3
	Communal heating and cooling powered by renewable energy	2
	Communal heating and cooling powered by gas or electricity	1
	Individual heating and cooling	0
	See Draft London Plan SI3	
3 Po	Illution: Air, Noise and Light	
	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2
	Does the development plan to 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 complete the information request form found on	
	the Richmond website.	
	Has an air quality impact assessment been provided	
	If yes, has 'Emissions Neutral' been achieved	1
	If yes, have occupants of new development been protected from existing pollution	1
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1
	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
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1
	see Policy LP 10	
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3
	see Policy LP 10	
	Have you attached a Lighting Pollution Report?	
		Subtotal
leas	e give any additional relevant comments to the Energy Use and Pollution Section below	
TR		
	ANSPORT	
.1 Pı	ovision for the safe efficient and sustainable movement of people and goods	
	Does your development provide opportunities for occupants to use innovative travel technologies?	
eas	e explain:	

Existing public transport and Bicycle to be used.	
	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 satisfactorily in the future expectation of all vehicles being electrically powered?	to operate 2
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 Che	ecklist. 5
See policy LP44	
For smaller developments ONLY: Have you provided a Transport Statement?	5
Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans?	2 12
See Local Plan Appendix 3	
Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2
	Subtotal
ease give any additional relevant comments to the Transport Section below	
Existing public transport and Bicycle to be used.	

4	BIODIVERSITY					
4.1 Mi		odiversity from new buildings, lighting, hard surfacing and people				
a.		t involve the loss of an ecological feature or habitat, including a loss of gar	den or other green spac	e? (Indicate if yes)		-2
		If so, please state how much in sqm?				sqm
b.	Does your developmen	t involve the removal of any tree(s)? (Indicate if yes)				
		If so, has a tree report been provided in support of your application? (India	cate if yes)			
	Dese vour developmen					
c.	Does your developmen	t plan to add (and not remove) any tree(s) on site? (Indicate if yes)				
d.	Please indicate which f	eatures and/or habitats that your development will incorporate to improve o	n site biodiversity:			
		Pond, reedbed or extensive native planting	6	Area provided:		sqm
		An extensive green roof An intensive green roof	5 4	Area provided: Area provided:		sqm sqm
		Garden space	4	Area provided:		sqm
		Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:		sqm
		Additional planting to peripheral areas	2	Area provided:		sqm
		A living wall Bat boxes	0.5	Area provided:		sqm
			0.5			
			0.5			
		Other	0.5			
е.		t use at least 70% of available roof plate as green/brown roof				1
	Policy LP 17 requires 7	0%			Sub	total 0
Please	e give any additional relev	ant comments to the Biodiversity Section below			045	total 0
		·				
5	FLOODING AND DRA					
5.1 Mitiga a.		and other impacts of climate change in the borough high flood risk zone (Zone 3)? (Indicate if yes)				-2
a.	is your site located in a	Have you submitted a Flood Risk Assessment? (Indicate if yes)				~2
b.	Which of the following	neasures of the drainage hierarchy are incorporated onto your site? (tick al	ll that apply)			_
		Store rainwater for later use Use of infiltration techniques such as porous surfacing materials to allow	drainage on-site			5 3
		Attenuate rainwater in ponds or open water features	aramago on ono			4
		Store rainwater in tanks for gradual release to a watercourse				3
		Discharge rainwater directly to watercourse Discharge rainwater to surface water drain				2 1
		Discharge rainwater to combined sewer				0
		Have you submitted a Drainage Statement (Indicate if yes)				
		Draft London Plan SL 13				
C.		in area of permeable surfacing which will result from your development pro of the permeable surfacing below		nt a loss in permeable area as	a negative number	sqm
		······································	<i>,</i>	,		total 0
Please	e give any additional relev	ant comments to the Flooding and Drainage Section below				
6 6 1 Re	IMPROVING RESOUR	CE EFFICIENCY nd amount disposed of by landfill though increasing level of re-use an	d recycling			
a.		red on your site prior to construction? [Points will only be awarded if 10% of		waste is reused/recycled]		1
		If so, what percentage of demolition waste will be reused in the new devel	opment?		0	%
		What percentage of demolition waste will be recycled?			100	%
					100	
	_					
b.	Does your site have an					1
		Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination?				2 2
		Have you submitted a remediation plan?				2
		Are plans in place to include composting on site?				1
C.	Will a waste managem	ent plan and facilities be in place in line with Policy LP24			TRUE	
6.2 Re	ducing levels of water w	aste				
a.		ures 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 Rainwater harvesting for internal use				1 4
		Greywater systems				4
		Fit a water meter				1
Place	aive any additional rates	ant comments to the Improving Resource Efficiency Section below			Sub	total 3
riease	s give any additional relev	an comments to the improving resource Eniciency Section below				

7	ACCESSIBILITY			
7.1	Ensure flexible adaptable and long-term use of structures			
a.	If the development is residential, will it meet the requirements of the nationally described space standard for internal space and layout?			
		If the standard	ds are not met, in the space below, please provide details of the functionality of the internal space and layout	-
AND				1
b.	If the development is	residential wil	l it meet Building Regulation Regulation M4 (2) 'accessible and adaptable dwellings'2	2
υ.	If the development is residential, will it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'? If this is not met, in the space below, please provide details of any accessibility measures included in the development.			
	in uns is not met, in the space below, please provide details of any accessionity measures included in the development.			
			idential developments, are 10% or more of the units in the development to Building Regulation Requirement	1
		M4 (3) 'wheel	chair user dwellings'?	
OR				
C.	If the development is	non-residentia	I, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2
		Bloose provid	e details of the accessibility measures specified in the Local Plan that will be included in the development	
		Please provid	e details of the accessionity measures specified in the Local Plan mat will be included in the development	1
				-
				Subtotal 5
Please	give any additional relev	ant comments	to the Design Standards and Accessibility Section below	
LBRUT Su	stainable Construction	Checklist- Sco	oring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL 41
	Score	Rating	Significance	
	84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development	
	75-83	A	Makes a major contribution towards achieving sustainable development in Richmond	
	56-74	В	Helps to significantly improve the Borough's stock of sustainable developments	
	40-55	С	Minimal effort to increase sustainability beyond general compliance	
	39 or less	FAIL	Does not comply with SPD Policy	
LBRUT Su	stainable Construction	Checklist- Sco	oring Matrix for New Construction Residential new-build	
	Score	Rating	Significance	
	85 or more	A++	Project strives to achieve highest standard in energy efficient sustainable development	
	68-84	A+	Project strives to achieve higher standard in energy efficient sustainable development	
	59-67	A	Makes a major contribution towards achieving sustainable development in Richmond	
	39-58	В	Helps to significantly improve the Borough's stock of sustainable developments	
		C		
	24-38	-	Minimal effort to increase sustainability beyond general compliance	
	23 or less	FAIL	Does not comply with SPD Policy	
A such a start a	1			
Authorisat	ion:			

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

Signature _____

Date _____