## **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 - Conversion Application No. (if known):	
Address (include, postcode)	9-10 George Street, London, TW9 1JY	
Completed by:	3-10 George Street, London, 1999 131	
For Non-Residential	For Residential	
Size of development (m2)	Number of dwellings 4	
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)	
Energy Assessment	sment been submitted that demonstrates the expected energy and carbon dioxide emissions saving from energy efficiency and	TRUE
	asures, including the feasibility of CHP/CCHP and community heating systems? If yes, please select TRUE.	TROL
Orah an Blands and alama	dustra	
Carbon Dioxide emissions re What is the on site ca	rbon dioxide emissions reduction against a Building Regulations Part L (2013) baseline	0 %
	oraft London Plan Policy 9.2.5 require a 35% onsite reduction in CO <sub>2</sub> emissions beyond Building Regulations 2013.	
		0.07
	pe reduction from efficiency measures alone Oraft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions	U %
	ulations 2013 from efficiency measures for residential and 15% for non-residential.	
Percentage of total s	te CO2 emissions saved through renewable energy installation?	0 %
What is the total rema	ining carbon to be offset	10.73 Tonne
Policy LP 22 B. and I	raft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon after offsetting.	
Are remaining emissi	ons going to be offset through offset fund payment in accordance with current guidelines issued for the cost per tonne of CO2?	TRUE
_		
What is the total pred		10,745 £
The London Plan Set	this as £95/tonne per year over 30 years, this should be updated based on As Build calculations.	
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)	
	Please check the Guidance Section of this SPD for the policy requirements	
Environmental Rating of dev	elopment:	
Non-Residential new-build (10		
BREEAM Level Excellent required under Polic	Please Select  Have you attached a pre-assessment to support this?	
Extensions and conversions for	r residential dwellings	
BREEAM Domestic F Excellent required under Police		
Extensions and conversions for		
BREEAM Level	Please Select Have you attached a pre-assessment to support this?	
Excellent required under Police	y LP 22	
Score awarded for Er		Subtotal 0
Score awarded for Er BREEAM:	vironmental Rating: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16	Subtotal 0
BREEAM:		
BREEAM:  1B MINIMUM POLICY C	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16	Subtotal 0
BREEAM:  1B MINIMUM POLICY C  Water Usage	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16	
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BREEAM:  1B MINIMUM POLICY C  Water Usage Internal water usage consumption). Calcul 110l/p/d Required for 110l/p/d Required for 2. ENERGY USE AND POLICE 2.1 Need for Cooling a. How does the develoe    See Draft London Plate    2.2 Heat Generation   b. How have the heating cooling systems that    See Draft London Plate    2.3 Pollution: Air, Noise and   a. Does the development   b. Does the development   b	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16  OMPLIANCE (RESIDENTIAL)  Inter gray/rainwater systems limited to 105 litres person per day. (Excluding an allowance 5 litres per person per day for external water attions 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 Policy SI5  TION  Oment incorporate cooling measures? Tick all that apply:  Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sqm  Reduce heat entering a building through providing/improving insulation and living roofs and walls Reduce heat entering a building through shading  Exposed thermal mass and high ceilings  Passive ventilation  Mechanical ventilation with heat recovery  Active cooling systems, i.e. Air Conditioning Unit  In SI4  and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy S13) Tick all heating and will be used in the development:  Connection to existing heating or cooling networks powered by renewable energy  Connection to existing heating or cooling networks powered by gas or electricity  Site wide CHP network powered by renewable energy  Communal heating and cooling powered by renewable energy  It 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	Score    Subtotal
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d. Please tick only one option below

	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?  Has the development taken care to not create any new noise generation/transmission issues in its intended operation?  see Policy LP 10	3 1
e.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3
f.	see Policy LP 10 Have you attached a Lighting Pollution Report?	-
Please	e give any additional relevant comments to the Energy Use and Pollution Section below	Subtotal 25
1000	o giro drift dediction commission to the Energy Coo drift. I industri Commission	
	ANSPORT 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?	
Please	e explain:	
	Existing public transport and Bicycle to be used.  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	Score
b.	satisfactorily in the future expectation of all vehicles being electrically powered?	2
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
d.	See policy LP44  For smaller developments ONLY: Have you provided a Transport Statement?	5
e.	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?	2 12
	Is this shown on the site plans? 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
Please	e give any additional relevant comments to the Transport Section below	Subtotal 7
	Existing public transport and Bicycle to be used.	
4	BIODIVERSITY	
<b>4.1 M</b> i a.	inimising the threat to biodiversity from new buildings, lighting, hard surfacing and people  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?	-2 sqm
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)	
c.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)	
d.	Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity:  Pond, reedbed or extensive native planting 6 Area provided:	sqm
	An extensive green roof 5 Area provided: An intensive green roof 4 Area provided:	sqm
	Garden space 4 Area provided: Additional native and/or wildlife friendly planting to peripheral areas 3 Area provided:	sqm sqm
	Additional planting to peripheral areas 2 Area provided: A living wall 2 Area provided:	sqm sqm
	Bat boxes 0.5 Bird boxes 0.5	
	Swift boxes 0.5 Other 0.5	
e.	Does your development use at least 70% of available roof plate as green/brown roof Policy LP 17 requires 70%	1
Please	e give any additional relevant comments to the Biodiversity Section below	Subtotal 0
5 .1 Mitiga	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)  Have you submitted a Flood Risk Assessment? (Indicate if yes)	-2
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 Attenuate rainwater in ponds or open water features	3 4
	Store rainwater in tanks for gradual release to a watercourse  Discharge rainwater directly to watercourse	3 2
	Discharge rainwater to surface water drain Discharge rainwater to combined sewer	1 0
	Have you submitted a Drainage Statement (Indicate if yes) 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:  Please provide details of the permeable surfacing below  O  please represent a loss in permeable area as a negative number	sqm
Please	e give any additional relevant comments to the Flooding and Drainage Section below	Subtotal 0

		it so, what pe	ercentage of demolition waste will be reused in the new development?	0
		What percent	tage of demolition waste will be recycled?	100
b.	Does your site have a	any contaminated	d land?	
	Dood your one nave t		omitted an assessment of the site contamination?	
			place to remediate the contamination?	
			omitted a remediation plan?	
			place to include composting on site?	
C.			cilities be in place in line with Policy LP24	TRUE
<b>6.2 кес</b> а.	ducing levels of water Will the following mea	asures of water of	conservation be incorporated into the development? (Please tick all that apply):	
			er efficient taps, shower heads etc efficient A or B rated appliances	
			rvesting for internal use	
		Greywater sy		
		Fit a water me	eter	
Please	give any additional rele	evant comments	to the Improving Resource Efficiency Section below	Subtot
7 7.1			term use of structures	
a.	If the development is		Il it meet the requirements of the nationally described space standard for internal space and layout?	
		ii iiie standar	ds are not met, in the space below, please provide details of the functionality of the internal space and layou	at .
AND b.	If the development is	is residential wi	Il it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	
υ.	ii tiic developiiiciit i		net, in the space below, please provide details of any accessibility measures included in the development.	<u> </u>
		F		
			idential developments, are 10% or more of the units in the development to Building Regulation Requirement chair user dwellings?	t
OR		M4 (3) 'wheel	Ichair user dwellings'?	
OR c.	If the development is	M4 (3) 'wheel		1
	If the development is	M4 (3) wheel	Ichair user dwellings'?	
	If the development is	M4 (3) wheel	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	
	If the development i	M4 (3) wheel	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	
	If the development i	M4 (3) wheel	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	
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c.		M4 (3) wheel	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45  de details of the accessibility measures specified in the Local Plan that will be included in the development	
c.		M4 (3) wheel	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	
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c.		M4 (3) wheel	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45  de details of the accessibility measures specified in the Local Plan that will be included in the development	
c. Please	give any additional rele	M4 (3) wheel is non-residentia Please provide	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45  de details of the accessibility measures specified in the Local Plan that will be included in the development  to the Design Standards and Accessibility Section below  oring Matrix for New Construction (Non-Residential and domestic refurb)	Subtot
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c. Please	give any additional rele ustainable Construction Score 84 or more	M4 (3) wheel is non-residentia Please provide	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45  de details of the accessibility measures specified in the Local Plan that will be included in the development  to the Design Standards and Accessibility Section below  oring Matrix for New Construction  Significance  Project strives to achieve highest standard in energy efficient sustainable development	Subtot
c. Please	give any additional release statement of the statement of	M4 (3) wheel is non-residentia Please provides evant comments on Checklist-Sc Rating A+ A B	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45  de details of the accessibility measures specified in the Local Plan that will be included in the development  to the Design Standards and Accessibility Section below  oring Matrix for New Construction  (Non-Residential and domestic refurb)  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	Subtot
c. Please	ustainable Construction Score 84 or more 75-83 56-74 40-55	M4 (3) wheel is non-residentia Please provide evant comments on Checklist-Sc Rating A+ A B C	Ichair user dwellings'?  al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45  de details of the accessibility measures specified in the Local Plan that will be included in the development  to the Design Standards and Accessibility Section below  oring Matrix for New Construction (Non-Residential and domestic refurb)  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	Subtot
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