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):	319 Richmond Road	Application No.	(if known):		
Address (include. postcode)	319 Richmond Road, Twickenham, TW1 2PB				
Completed by:					
For Non-Residential Size of development (m2)		For Residential Number of dwellings	243		
	NCE (RESIDENTIAL AND NON-RESIDENTIAL)	. vanibor or awomingo			
	sment been submitted that demonstrates the expected energy and carbon dioxide asures, including the feasibility of CHP/CCHP and community heating systems? If		efficiency and	TRUE	
	eduction arbon dioxide emissions reduction against a Building Regulations Part L (2013) bas Draft London Plan Policy 9.2.5 require a 35% onsite reduction in CO $_2$ emissions b		013 .	36 %	
Policy LP 22 C. and E	ge reduction from efficiency measures alone Draft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions pulations 2013 from efficiency measures for residential and 15% for non-residential			19 %	
Percentage of total si	ite CO2 emissions saved through renewable energy installation?			17 %	
	aining carbon to be offset Draft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbor	n after offsetting.		0 Tonne	
Are remaining emission	ons going to be offset through offset fund payment in accordance with current guid	lelines issued for the cost per t	onne of CO2?	FALSE	
What is the total pred	licted cost of offset? s this as £95/tonne per year over 30 years, this should be updated based on As Bu	uild coloulations		£	
		ind calculations.			
1A MINIMUM POLICY C	COMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT) Please check the Guidance Section of this SPD for the p	policy requirements			
Environmental Rating of dev					
Non-Residential new-build (10 BREEAM Level Excellent required under Polic	Please Select	Have you attached a pre-as	sessment to support this?		Please Select:
Extensions and conversions for BREEAM Domestic R Excellent required under Police	Refurbishment Please Select	Have you attached a pre-as	ssessment to support this?		Please Select:
Extensions and conversions for BREEAM Level Excellent required under Police	Please Select	Have you attached a pre-as	ssessment to support this?		Please Select:
Score awarded for En BREEAM:	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16			Subtotal 0	
1B MINIMUM POLICY C	COMPLIANCE (RESIDENTIAL)			Score	
consumption). Calcula	after gray/rainwater systems limited to 105 litres person per day. (Excluding an allo ations using the water efficiency calculator for new dwellings have been submitted. rnew dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan F		day for external water	1 Subtotal 1	TRUE

2. ENERGY USE AND POLLUTION		
2.1 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	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	TRUE
Mechanical ventilation with heat recovery	1	FALSE
Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
See Draft London Plan SI4	· ·	171202
GGC DIAL 25/18/17 IAI. GT		
2.2 Heat 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 Connection to existing heating or cooling networks powered by gas or electricity	5	FALSE
Site wide CHP network powered by renewable energy	1	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	ò	TRUE
See Draft London Plan S/3	· ·	11102
2.3 Pollution: Air. Noise and Light		
a. Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	TRUE
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		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	•	IALUL
Sec 1 diay El 10		
d. 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		
•		
e. Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	TRUE
see Policy LP 10		
f. Have you attached a Lighting Pollution Report?	-	
	. <u> </u>	
	Subtotal 13	
Please give any additional relevant comments to the Energy Use and Pollution Section below		
The development has proposed to install low carobon space heating in for of an ASHP. There are also plans to install renewable technoligy which is solar PV. Due to the devel	opment being a	

The development has proposed to install low carobon space heating in for of an ASHP. There are also plans to install renewable technoligy which is solar PV. Due to the development being a change of usesome of the above elements are not feasable to achieve.

For major developments ONLY: Has a Transport Assessment benefit 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 FALS See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 5 FALS 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? See Local Plan Appendix 3		ovision 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 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? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 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? See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. Subtotal 2	ease	explain:		
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See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 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? See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. Subtotal 2				
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If so, for how many bicycles? If so,			5	FALSE
Is this shown on the site plans? See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 FALS Subtotal 2			2	TRUE
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Subtotal 2				INUE
		Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2	FALSE
ease give any additional relevant comments to the Transport Section below			Subtotal	2
	ease	give any additional relevant comments to the Transport Section below		_
transport assesment has not been required to be carried out. There are plans to have cycle storage at the front of the development.				

4	BIODIVERSITY					
4.1 Mi	nimising the threat to biodiversity from new buildings, lighting, hard surfacing and people)			, and the second second	
a.	Does your development involve the loss of an ecological feature or habitat, including a loss of	f garden or other green s	pace? (Indicate if yes)		-2	FALSE
	If so, please state how much in sqm?	0			0 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? ((Indicate 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 impro	ove on site biodiversity:				
	Pond, reedbed or extensive native planting	6	Area provided:		sqm	FALSE
	An extensive green roof	5	Area provided:		9 sqm	TRUE
	An intensive green roof	4	Area provided:		sqm	FALSE
	Garden space	4	Area provided:	10m	sqm	TRUE
	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				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	FALSE
	Policy LP 17 requires 70%					
					Subtotal 14	
Please	give any additional relevant comments to the Biodiversity Section below					
	The condense to the forest of the decoder control 20 Control control and the decoder control at a section 20 Control control and a section 20 Control		()	a alasta d'a de adametra acces		
	The garden to the front of the development will include new planting of shrubs and potential	ily a tree, vynere posible i	native piant species will b	ie planted in the development		

5	FLOODING AND DRAINAGE		
5.1 Mitig	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)	-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)		
	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	FALSE
	Discharge rainwater to combined sewer	0	FALSE
	Have you submitted a Drainage Statement (Indicate if yes)		FALSE
	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 please represent a limit of the permeable surfacing below	sqm	
	Please provide details of the permeable surfacing below please represent a l	loss in permeable area as a negative number	
-		Subtotal 3	
Pleas	e give any additional relevant comments to the Flooding and Drainage Section below		
	HARRING STRANGE STRANGE		
6	IMPROVING RESOURCE EFFICIENCY educe waste generated and amount disposed of by landfill though increasing level of re-use and recycling		
	Will demolition be required on your site prior to construction? [Points will only be awarded if 10% or greater of demolition w	to a to a source of the country of the source of the country of th	TRUE
a.	will demolition be required on your site prior to construction? [Points will only be awarded if 10% or greater or demolition w	raste is reused/recycledj	IKUE
	If so, what percentage of demolition waste will be reused in the new development?	0 %	
	if so, what percentage of demonstron waste will be reused in the new development?	0 /6	
	What percentage of demolition waste will be recycled?	95 %	
	what percentage of demonstron waste will be recycled:	95	
b.	Does your site have any contaminated land?	1	FALSE
D.	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		
	educing 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	FALSE
	Greywater systems	4	FALSE
	Fit a water meter	1	TRUE
		Subtotal 3	
Pleas	e give any additional relevant comments to the Improving Resource Efficiency Section below		
	er calculation has been completed and the dwelling is targeting 109.3l/person/day. Thes exceeds the councils target of 110L/p	person/day.	

7.1	Ensure flexible adapt	table and long	term use of structures				
a.			I it meet the requirements of the nationally described space standard for	or internal space and layout?		1	TR
			ds are not met, in the space below, please provide details of the function		ıt		<u> </u>
AND							
b.	If the development is	residential, w	I it meet Building Regulation Requirement M4 (2) 'accessible and adap	table dwellings'?		2	TR
		If this is not r	et, in the space below, please provide details of any accessibi <u>lity meas</u>	sures included in the development.			
		Far	destini de colonyante que 400/ es propo ef the curito in the decelerance	t to Duilding Deputation		1	FAI
			dential developments, are 10% or more of the units in the developmen M4 (3) 'wheelchair user dwellings'?	t to Building Regulation		,	FAI
OR		-	-				
C.	If the development is	non-residenti	al, does it comply with requirements included in Richmond's Local Plan	LP1, LP28.B, LP30 & LP45		2	FAI
		Please provid	e details of the accessibility measures specified in the Local Plan that	will be included in the development			
						Subtotal	2
Pleas	se give any additional rele	vant comments	to the Design Standards and Accessibility Section below			Gubtotui	J
			to the Design Standards and Accessibility Section below and not a new build dwelling and in conservation area the requirment:	s of Building regulations Requirment	M4 3) are ristricted.	Gubiotai	<u> </u>
			to the Design Standards and Accessibility Section below and not a new build dwelling and in conservation area the requirment	s of Building regulations Requirment	M4 3) are ristricted.	Cubicital	
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				s of Building regulations Requirment	M4 3) are ristricted.	Gustotta	-,
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Due to	o the development being Sustainable Construction Score	a change of us n Checklist- Se Rating	e and not a new build dwelling and in conservation area the requirment oring Matrix for New Construction (Non-Resider	ntial and domestic refurb)	M4 3) are ristricted.		9
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