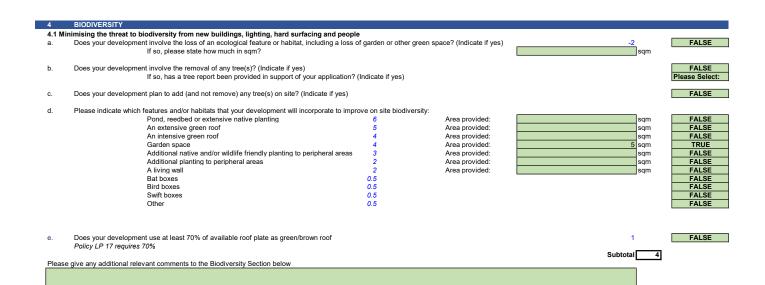
LBRUT Sustainable Construction Checklist - June 2020

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):	10 Orleans Road		Application No.	. (if known):		
Address (include. postcode)	10 Orleans Rd, Twickenham T	W1 3BL				
Completed by:	Rahul Nair					
	Trana Tran					
For Non-Residential Size of development (m2)			For Residential Number of dwellings	2		
	ANCE (RESIDENTIAL AND NON-					
		nstrates the expected energy and carbon dioxide e		y efficiency and	TRUE	
renewable energy me	easures, including the feasibility of	CHP/CCHP and community heating systems? If y	yes, please select TRUE.			
	arbon dioxide emissions reduction	against a Building Regulations Part L (2013) base quire a 35% onsite reduction in CO ₂ emissions be		013.	86.79 %	< over Part L 2021
Policy LP 22 C. and		ures alone quire a 10% onsite reduction in CO2 emissions isures for residential and 15% for non-residential.			86.79 %	
Percentage of total s	site CO2 emissions saved through	renewable energy installation?			0 %	
	aining carbon to be offset Draft London Plan Policy 9.2.4 reg	uire Major developments to achieve Zero Carbon	after offsetting.		0 Tonne	
Are remaining emissi	ions going to be offset through offs	set fund payment in accordance with current quide	lines issued for the cost per	tonne of CO2?	FALSE	
What is the total prec	dicted cost of offset?				N/A £	
The London Plan set	s this as £95/tonne per year over 3	30 years, this should be updated based on As Buil	ld calculations.			
1A MINIMUM POLICY C	COMPLIANCE (NON-RESIDENTIA	AL AND DOMESTIC REFURBISHMENT)				
		eck the Guidance Section of this SPD for the po	olicy requirements			
Environmental Rating of dev Non-Residential new-build (10						
BREEAM Level		Please Select	Have you attached a pre-a	ssessment to support this?		Please Select:
Excellent required under Polic Extensions and conversions f						
BREEAM Domestic F Excellent required under Polic		Excellent	Have you attached a pre-a	ssessment to support this?		TRUE
Extensions and conversions f		Place Only 4				Please Select:
BREEAM Level Excellent required under Poli	icy LP 22	Please Select	Have you attached a pre-a	ssessment to support this?		Please Select:
Score awarded for El BREEAM:	nvironmental Rating: Good = 0, Very Good = 4, Exce	ellent = 8, Outstanding = 16			Subtotal 8	
1B MINIMUM POLICY C	COMPLIANCE (RESIDENTIAL)					
Water Usage					Score	
		d to 105 litres person per day. (Excluding an allow alculator for new dwellings have been submitted.	vance 5 litres per person per	r day for external water	1	TRUE
		A 2 105l/p/d required under Draft London Plan Po	olicy SI5		Subtatal 1	
					Subtotal 1	

1 NE	ed for Cooling	Score	
	How does the development incorporate cooling measures? Tick all that apply:	000.0	
	Energy efficient design incorporate gas pacific heat demand to less than or equal to 15 kWh/sgm	6	FALSE
	Energy enclosed besign incorporating specific read demains to reso and or equal to its writesquin Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	TRUE
	Reduce heat entering a building through shading	23	FALSE
		3	
	Exposed thermal mass and high ceilings		FALSE
	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 He	at 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	3core 6	FALSE
	Connection to existing heating or cooling networks powered by renewable energy Connection to existing heating or cooling networks powered by gas or electricity	5	FALSE
	Site vide CHP network powered by renewable energy	5 4	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	0	TRUE
	See Draft London Plan SI3		
3 Pol			
	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	Please Sele
	If yes, have occupants of new development been protected from existing pollution	1	Please Sele
	If no to any of the advorgance of receiving boundary point and provide the providet the provide the provide the provide the providet the pr	-1	FALSE
	see Policy LP 10	-1	FALSE
	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	TRUE
	see Policy LP 10		
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	TRUE
	see Policy LP 10		
	Have you attached a Lighting Pollution Report?	-	
		Subtotal	15
lease	give any additional relevant comments to the Energy Use and Pollution Section below		

Please explain: 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 satisfactorilv in the future expectation of all vehicles being electrically powered? Score b. operate satisfactorilv 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 Please Sel d. For smaller developments ONLY: Have you provided a Transport Statement? 5 TRUE e. Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TRUE is this shown on the site plans? 2 TRUE See Local Plan Appendix 3 3 TRUE	3. TR	ANSPORT		
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f. Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 FALS Subtoal 7				TROL
	f.		2	FALSE
Please give any additional relevant comments to the Transport Section below			Subtotal 7	
	Pleas	e give any additional relevant comments to the Transport Section below		



5	FLOODING AND DRAINAGE		
	igating 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
а.	Have you submitted a Flood fisk Assessment? (Indicate if yes)	-2	FALSE
	have you submitted a riood Risk Assessment? (indicate if yes)		FALSE
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	FALSE
	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	TRUE
	Discharge rainwater to combined sewer	0	TRUE
	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: 0	sqm	
0.	Please provide details of the permeable surfacing below please represent a loss in permeable area as a negative number	Joqui	
	r rease provide details of the permeable and an egaine number	Subtotal 6	
		Subtotal 6	
Plea	ase give any additional relevant comments to the Flooding and Drainage Section below		
6	IMPROVING RESOURCE EFFICIENCY		
6.1	Reduce waste generated and amount disposed of by landfill though increasing level of re-use and recycling		
а.	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	FALSE
	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?	1	FALSE
	Have you submitted an assessment of the site contamination?	2	FALSE
	Are plans in place to remediate the contamination?	2	FALSE
		2	
	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		
6.2	Reducing levels of water waste		
а.	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
		· · · · · · · · · · · · · · · · · · ·	INCL
		Subtotal 3	
		Subtotal 3	
Plea	ase give any additional relevant comments to the Improving Resource Efficiency Section below		

	the development is	rocidontial w	-term use of structures ill it meet the requirements of the nationally described space standard for internal space and layout?	1	TRUE
			ds are not met, in the space below, please provide details of the functionality of the internal space and layout	· · · · · ·	Inde
AND					
b. If	the development is		ill it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2	TRUE
		If this is not n	net, in the space below, please provide details of any accessibility measures included in the development.		
			Will look to meet this where possible however the development		
			involves the refurbishment of a grade II listed building and		
			therefore internal rearrangements will be limited.		
			idential developments, and 40% as more of the units in the development to Duilding Devulation	1	Please Select:
			idential developments, are 10% or more of the units in the development to Building Regulation M4 (3) 'wheelchair user dwellings'?	'	Please Select:
OR		rtoquitoritorit			
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	Please Select:
		Please provid	de details of the accessibility measures specified in the Local Plan that will be included in the development		
				a	2
Diseas eiu			s to the Design Standards and Accessibility Section below	Subtotal	3
r loube gri	io any additional rolo				
	inchia Construction				
DDUT Custo	anable Construction				T
BRUT Susta	Score		coring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL 47	2
BRUT Susta	Score 84 or more	Rating	Significance	TOTAL 47	7
BRUT Susta	Score 84 or more 75-83			TOTAL 47	2
BRUT Susta	84 or more 75-83 56-74	Rating A+	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 47	7]
BRUT Susti	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 47	7
BRUT Susta	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 47	7]
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	84 or more 75-83 56-74 40-55 39 or less ainable Construction Score 85 or more	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 coring Matrix for New Construction Residential new-build Significance Project strives to achieve highest standard in energy efficient sustainable development	TOTAL 47	2
	84 or more 75-83 56-74 40-55 39 or less ainable Construction Score 85 or more 68-84	Rating A+ A B C FAIL Checklist-So 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 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 coring Matrix for New Construction Residential new-build Significance Project strives to achieve highest standard in energy efficient sustainable development Project strives to achieve higher standard in energy efficient sustainable development	TOTAL 47	1
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