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 (ii relevant).		Application No. (ii kno	JWII).					
Address (include, postcode)	16 Strawberry Hill Road, Twickenham TW1 4PT.							
Completed by:	To example your read, runnermain reversity							
For Non Posidontial		For Posidontial						
For Non-Residential Size of development (m2)		For Residential Number of dwellings						
Size of development (mz)		Number of dwellings						
1 MINIMUM COMPLIAN	ICE (RESIDENTIAL AND NON-RESIDENTIAL)							
I= .								
Energy Assessment	sment been submitted that demonstrates the expected energy and carbon dioxide emission	one coving from anomy officionsy and	d ronowable	TRUE				
	shiert been submitted that demonstrates the expected energy and carbon dioxide emission cluding the feasibility of CHP/CCHP and community heating systems? If yes, please select		Tellewable	INOL				
Shorgy medicares; me	energy measures, including the reasibility of or in 700 iii and community meating systems; in yes, prease seried mode.							
Carbon Dioxide emissions re								
	arbon dioxide emissions reduction against a Building Regulations Part L (2013) baseline			100 %				
Policy LP 22 B. and I	Draft London Plan Policy 9.2.5 $$ require a 35% onsite reduction in CO $_2$ emissions beyond E	Building Regulations 2013.						
What is the persented	va vaduation from officional macauses along			33.47 %				
	ge reduction from efficiency measures alone			33.47				
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.								
beyona ballaling Neg	diations 2010 from emblerity measures for residential and 1070 for non-residential.							
Percentage of total site CO2 emissions saved through renewable energy installation?								
	aining carbon to be offset	ff Win n		0 Tonne				
Policy LP 22 B. and L	Draft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon after o	msetting.						
Are remaining emissions going to be offset through offset fund payment in accordance with current guidelines issued for the cost per tonne of CO2?								
5		·						
What is the total pred				0 £				
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 pol-	icy requirements	\neg					
	-	cy requirements	_					
Non-Residential new-build (100								
BREEAM Level	Please Select	Have you attached a pre-assessmen	ent to support this?		Please Select:			
Excellent required under Policy		Trave you attached a pre assessmen	in to support this:		i icase delect.			
Extensions and conversions fo	r residential dwellings							
BREEAM Domestic R		Have you attached a pre-assessmen	nt to support this?		Please Select:			
Excellent required under Policy								
Extensions and conversions fo BREEAM Level	r non-residential buildings Excellent	Have you attached a pre-assessmen	ent to cunnort thin?		TRUE			
Excellent required under Polic		nave you attached a pre-assessmen	iii to support tilis?		INUE			
	,							
Score awarded for Er				Subtotal 8				
BREEAM:	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16							
1B MINIMUM POLICY CO	OMPLIANCE (RESIDENTIAL)							
- TB- WINNINGWIT CLICT CC	pini Eixhol (heolden hal)			Score				
Water Usage								
	after gray/rainwater systems limited to 105 litres person per day. (Excluding an allowance	5 litres per person per day for externa	al water consumption).					
	e water efficiency calculator for new dwellings have been submitted. r new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Policy S	IE.		1	TRUE			
i i ui/p/a rtequirea for	new aweilings ander Policy LP22 A 2 Tool/p/a required under Drait London Plan Policy S	IU						

Subtotal 1

2. ENERGY USE AND POLLUTION 2.1 Need for Cooling	Score	
	Score	
a. How does the development incorporate cooling measures? Tick all that apply:	•	541.05
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	TRUE
Reduce heat entering a building through shading	3	Please Select:
Exposed thermal mass and high ceilings	4	Please Select:
Passive ventilation	3	Please Select:
Mechanical ventilation with heat recovery	1	FALSE
Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
See Draft London Plan SI4		
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 \$13) 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	0	TRUE TRUE
Individual heating and cooling See Draft London Plan SI3	U	IRUE
2.3 Pollution: Air, Noise and Light		
a. Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	Please Select:
a. Boos the development plan to implement reduction stategies for dask chilosofis non-constitution stees.	-	i icuse seiest.
b. Does the development plan to include a biomass boiler?		Please Select:
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	-1	Please Select:
age i unuy Ei i i v		
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	Please Select:
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		
	_	
e. Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	Please Select:
see Policy LP 10		
f. Have you attached a Lighting Pollution Report?	-	
	Subtotal	5
Please give any additional relevant comments to the Energy Use and Pollution Section below	Gubiotai	<u>~</u> _
I load give any additional following dominions to the Energy doc and I dilation decition below		

3. TR/	ANSPORT CONTROL OF THE PROPERTY OF THE PROPERT		
3.1 Pr	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:
u.	boos your development provide apportaments to accurate the data innovative travel testinologies.		i lease delect.
Please	explain:		
1 1000	э охран.		
		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 operate		
b.	satisfactorily in the future expectation of all vehicles being electrically powered?	2	FALSE
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	•	r icase ociect.
		_	TRUE
d.	For smaller developments ONLY: Have you provided a Transport Statement?	5	IRUE
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?		
	Is this shown on the site plans?		Please Select:
	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	FALSE
	······································		
		Cultivated 5	
		Subtotal 5	
Please	e give any additional relevant comments to the Transport Section below		

4	BIODIVERSITY						
4.1 Minimising the threat to biodiversity from new buildings, lighting, hard surfacing and people							
a.	a. 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?							
b.							
	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)					FALSE		
d.	Please indicate which features and/or habitats that your development will incorporate to improve o	n site hindiversity					
u.	Pond, reedbed or extensive native planting	6	Area provided:	sqm	FALSE		
	An extensive green roof	5	Area provided:	sgm	FALSE		
	An intensive green roof	4	Area provided:	sqm			
	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			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		
٥.	Policy LP 17 requires 70%			•	TALUL		
	r didy Er Tr required 7070			Subtotal #REF!			
Please	e give any additional relevant comments to the Biodiversity Section below			oustour wrent			
1 10000	s give any additional following definitions to the Bloan only Coulon bolow						

5.1 Mitigating 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) b. Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply) Store rainwater for later use Use of infiltration techniques such as porous surfacing materials to allow drainage on-site Attenuate rainwater in ponds or open water features Store rainwater in tanks for gradual release to a watercourse Discharge rainwater of item to surface water drain Discharge rainwater of sourhiend sewer Discharge rainwater to surface water drain Discharge rainwater or sourhiend sewer Have you submitted a Drainage Statement (Indicate if yes) See Policy LP 21 and Draft London Plan St. 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 provide details of the permeable surfacing below Please provide details of the permeable surfacing below By By any additional relevant comments to the Flooding and Drainage Section below 8 IMPROVING RESOURCE EFFICIENCY 6.1 IMPROVING RESOURCE EFFICIENCY 8 IMPROVING RESOURCE EFFICIENCY 6.2 IMPROVING RESOURCE EFFICIENCY 8 IMPROVING RESOURCE EFFICIENCY 6.3 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 of the control of the filter of the permeable area as a measure of the demolition waste is reused/recycled]	FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TR	5 3 4 3 2 1	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) b. Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply Store rainwater for later use Use of infiltration techniques such as porous surfacing materials to allow drainage of Attenuate rainwater in ponds or open water features Store rainwater in tanks for gradual release to a watercourse Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to combined sewer Have you submitted a Drainage Statement (Indicate if yes)
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6 IMPROVING RESOURCE EFFICIENCY 6.1 Reduce waste generated and amount disposed of by landfill though increasing level of re-use and recycling		Subtotal 18	
6 IMPROVING RESOURCE EFFICIENCY 6.1 Reduce waste generated and amount disposed of by landfill though increasing level of re-use and recycling	_		Please give any additional relevant comments to the Flooding and Drainage Section below
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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]			$\hat{\mathfrak{s}}.1$ Reduce waste generated and amount disposed of by landfill though increasing level of re-use and recycling
	Please Select:	1	a. Will demolition be required on your site prior to construction? [Points will only be awarded if 10% or greater or
If so, what percentage of demolition waste will be reused in the new development?		%	If so, what percentage of demolition waste will be reused in the new development?
n or, mar possinage of definition in account the new account.		,,,	in ee, much personnage or demonster made in the new development.
What percentage of demolition waste will be recycled?		0/	What paraptage of demolition upote will be recipled?
what percentage of demolition waste will be recycled?		70	what percentage of demonstron waste will be recycled?
b. Does your site have any contaminated land?	Please Select:	•	Does your site have any contaminated land?
Have you submitted an assessment of the site contamination?	Please Select:	2	Have you submitted an assessment of the site contamination?
Are plans in place to remediate the contamination?	Please Select:	2	Are plans in place to remediate the contamination?
	Please Select:		
Have you submitted a remediation plan?		<u>'</u>	
Have you submitted a remediation plan?	Please Select:	1	Are plans in place to include composting on site?
Have you submitted a remediation plan? Are plans in place to include composting on site?			
Are plans in place to include composting on site?			c. Will a waste management plan and facilities be in place in line with Policy LP24
Are plans in place to include composting on site?			· · · · · · · · · · · · · · · · · · ·
Are plans in place to include composting on site? c. Will a waste management plan and facilities be in place in line with Policy LP24			
Are plans in place to include composting on site? c. Will a waste management plan and facilities be in place in line with Policy LP24 6.2 Reducing levels of water waste			6.2 Reducing levels of water waste
Are plans in place to include composting on site? c. Will a waste management plan and facilities be in place in line with Policy LP24 6.2 Reducing levels of water waste a. Will the following measures of water conservation be incorporated into the development? (Please tick all that apply):	Plassa Salasti		6.2 Reducing levels of water waste a. Will the following measures of water conservation be incorporated into the development? (Please tick all that
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7.1 a.	Ensure flexible adapt		rm use of structures it meet the requirements of the nationally described space standard for internal space and layout?	4	TRUE
a.	ii tile developillelit is		ds are not met, in the space below, please provide details of the functionality of the internal space and layout	,	INUE
AND		n alo olanda.	and the first first speed and tay out		
b.	If the development is	residential, will	it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2	TRUE
			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 M4 r user dwellings'?	1	Please Select:
OR c.	If the development is	non-residential,	does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2	Please Select:
		Please provid	e details of the accessibility measures specified in the Local Plan that will be included in the development		
			the Design Standards and Accessibility Section below	Subtotal 3	
BRUT Sus	stainable Construction (Checklist- Scori	ng Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL ####	
	Score	Rating	Significance (Non-Residential and domestic return)	101AL ####	
	84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development		
	75-83	A T	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		
BRUT Sus	stainable Construction (Checklist- Scori	ng 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	Α	Makes a major contribution towards achieving sustainable development in Richmond		
	39-58	B Helps to significantly improve the Borough's stock of sustainable developments			
	24-38	С	Minimal effort to increase sustainability beyond general compliance		
	23 or less	FAIL	Does not comply with SPD Policy		
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uthorisat					
I herew	vith declare that I have fill	ea in this form to	the best of my knowledge		
			Signature Date		