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):	Elleray Housing Development	Application No. (if known):	
Address (include, postcode)	Teddington, London, UK		
Completed by:	Todalington, Zondon, Ort		
	Dayana Anastasova		
For Non-Residential		For Residential	
Size of development (m2)		Number of dwellings 16	
, , ,			
1 MINIMUM COMPLIAI	NCE (RESIDENTIAL AND NON-RESIDENTIAL)		
Energy Assessment			
	ment been submitted that demonstrates the expected energy and carbon dioxide em	nissions saving from energy efficiency and	TRUE
	asures, including the feasibility of CHP/CCHP and community heating systems? If ye		
Contrar Biorido amicaismo m	advasta n		
Carbon Dioxide emissions re What is the on site ca	eduction rbon dioxide emissions reduction against a Building Regulations Part L (2013) baseli	ne	-58.23 %
	praft London Plan Policy 9.2.5 require a 35% onsite reduction in CO $_2$ emissions beyon		70
•	•		
What is the percentag	e reduction from efficiency measures alone		-25.66 %
	Praft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions		
beyond Building Regi	ulations 2013 from efficiency measures for residential and 15% for non-residential.		
Percentage of total si	te CO2 emissions saved through renewable energy installation?		-22% %
. c. comage en com en			
	aining carbon to be offset		7.296 Tonne
Policy LP 22 B. and D	raft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon at	ter offsetting.	
Are remaining emission	ons going to be offset through offset fund payment in accordance with current guideli	nes issued for the cost per tonne of CO2?	TRUE
and the second of the second o	,		
What is the total pred			20,794 £
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 C	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)		
	Please check the Guidance Section of this SPD for the po	olicy requirements	
Environmental Rating of dev	·	,	
Non-Residential new-build (100	·		
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?	
Excellent required under Policy			
Extensions and conversions fo BREEAM Domestic R		Have you attached a pre-assessment to support this?	
Excellent required under Policy		riave you attached a pre-assessment to support this:	
Extensions and conversions fo			
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?	
Excellent required under Police	y LP 22		
Score awarded for En	vironmental Rating:		Subtotal 0
BREEAM:	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)		
TO WINNINGWI FOLICY C	OMI EIANGE (RESIDENTIAL)		Score
Water Usage			
	after gray/rainwater systems limited to 105 litres person per day. (Excluding an allowater systems)	ance 5 litres per person per day for external water	
	ations using the water efficiency calculator for new dwellings have been submitted. new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Polic	CV \$15	1
i Toi/p/a rkequired for	new awenings under Folicy LF22 A 2 100/p/a required under Draft Loridon Plan Polic	cy sis	Subtotal 1
			Jubiotal

2 ENE	EDCY LISE AND BOLLLITION	
	RGY USE AND POLLUTION eed 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
	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 2 40	at Generation	
2.2 пе 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	
D.	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 Communal heating and cooling powered by gas or electricity	2
	Individual heating and cooling	0
	See Draft London Plan SI3	U
2.3 Po	Ilution: Air, Noise and Light	
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2
_		
b.	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.	
C.	Has an air quality impact assessment been provided	
0.	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	
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?	3
	see Policy LP 10	,
e.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3
,	see Policy LP 10	
т.	Have you attached a Lighting Pollution Report?	
		Subtotal 26
Please	give any additional relevant comments to the Energy Use and Pollution Section below	
3. TRA	NSPORT	
	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	explain:	
		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	
b.	operate 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?	
0.	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
	See policy LP44	•
d.	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)	2
	If so, for how many bicycles?	21
	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
	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	_
		Subtotal 7
DI	give any additional relevant comments to the Transport Section below	

4		BIODIVERSITY					
4. a.		mising the threat to biodiversity from new building. Does your development involve the loss of an ecolog. If so, please state how much	ical feature or habitat, including a loss of		ace? (Indicate if yes)		-2 sqm
b.		Does your development involve the removal of any trulif so, has a tree report been p	ree(s)? (Indicate if yes) provided in support of your application? (In	ndicate 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 you have a pond, reedbed or extensive or an extensive green roof. An intensive green roof. Garden space. Additional native and/or wildly Additional planting to peripher a living wall. Bat boxes. Bird boxes. Swift boxes. Other	native planting ife friendly planting to peripheral areas	7e on site biodiversity: 6 5 4 4 3 2 2 0.5 0.5 0.5 0.5	Area provided:		sqm 274 sqm sqm 690 sqm 60 sqm 160 sqm sqm
e.		Does your development use at least 70% of available Policy LP 17 requires 70%	roof plate as green/brown roof				1
Р	lease g	give any additional relevant comments to the Biodivers	sity Section below				Subtotal 15
5 5 1 M		FLOODING AND DRAINAGE ng the risks of flooding and other impacts of clima	ate change in the horough				
a.	_	Is your site located in a high flood risk zone (Zone 3)?					-2
b.		Attenuate rainwater in ponds Store rainwater in tanks for g Discharge rainwater directly t Discharge rainwater to surfac	such as porous surfacing materials to allo or open water features radual release to a watercourse o watercourse se water drain	, , , , ,			5 3 4 3 2 1
		Discharge rainwater to combi Have you submitted a Draina	ned sewer ge Statement (Indicate if yes)				U
C.		See Policy LP 21 and Draft London Plan SL 13 Please give the change in area of permeable surfacir	ng which will result from your developmen			169	sqm
		Please provide details of the permeable surfacing bel	OW	please represei	nt a loss in permeable area as a	a negative number	Subtotal 4
P	lease g	give any additional relevant comments to the Flooding	and Drainage Section below				
6		IMPROVING RESOURCE EFFICIENCY					
6. a.		uce waste generated and amount disposed of by limits Will demolition be required on your site prior to const			waste is reused/recycled	1	1
		If so, what percentage of den	nolition waste will be reused in the new de	evelopment?			%
		What percentage of demolition	on waste will be recycled?				%
b.		Does your site have any contaminated land? Have you submitted an assess Are plans in place to remedia Have you submitted a remed Are plans in place to include	iation plan?				1 2 2 1 1
C.		Will a waste management plan and facilities be in pla	ce in line with Policy LP24				
6.	.2 Red	ucing levels of water waste					
a.		Will the following measures of water conservation be Fitting of water efficient taps, Use of water efficient A or B Rainwater harvesting for inte Greywater systems	shower heads etc rated appliances	ase tick all that apply):			1 1 4 4
		Fit a water meter					Subtotal 3
<u>P</u>	lease g	give any additional relevant comments to the Improvin	g Resource Efficiency Section below				Subtotal 3

	ACCESSIBILITY			
7.1	Ensure flexible adapta	ble and long	-term use of structures	
a.			ill it meet the requirements of the nationally described space standard for internal space and layout?	1
			ds are not met, in the space below, please provide details of the functionality of the internal space and layout	
AND				_
b.	If the development is a	residential w	ill it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2
Б.	-		net, in the space below, please provide details of any accessibility measures included in the development.	2
		11 11115 15 1101 11	net, in the space below, please provide details of any accessibility measures included in the development.	
			The California was to see 400% on some of the section in the section of the D. This or D. white a D. white was to	_
		•	sidential 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 I	non-residenti	al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2
		Please provid	de details of the accessibility measures specified in the Local Plan that will be included in the development	
				_
				Subtotal 4
Please	give any additional releva	ant comments	to the Design Standards and Accessibility Section below	
1 lease	give any additional releva	ant comments	to the Besign Standards and Accessibility Section below	
LBRUT Su	stainable Construction	Checklist- So	coring Matrix for <i>New Construction</i> (Non-Residential and domestic refurb)	TOTAL 60
LBRUT Su				TOTAL 60
LBRUT Su	Score	Rating	Significance	TOTAL 60
LBRUT Su	Score 84 or more	Rating A+	Significance Project strives to achieve highest standard in energy efficient sustainable development	TOTAL 60
LBRUT Su	Score 84 or more 75-83	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	TOTAL 60
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	\$core 84 or more 75-83 56-74 40-55 39 or less \$tainable Construction \$core 85 or more 68-84 59-67 39-58 24-38	Rating A+ A B C FAIL Checklist- So 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 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 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 60
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