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):	25 Ham Farm Road	Application No. (if known):		
Address (include, postcode)	25 Ham Farm Road London TW10 5NA			
Completed by:	25 Haili Failii Road Loildoii I W 10 SNA			
	Melissa Merryweather			
For Non-Residential		For Residential		
Size of development (m2)		Number of dwellings 1		
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)			
F			-	
Energy Assessment Has an energy assess	sment been submitted that demonstrates the expected energy and carbon dioxide em	issions saving from energy efficiency and	TRUE	
	asures, including the feasibility of CHP/CCHP and community heating systems? If yes		TROE	
<u> </u>	· · · · · · · · · · · · · · · · · · ·		-	
Carbon Dioxide emissions re			212	
	rbon dioxide emissions reduction against a Building Regulations Part L (2013) baselir Draft London Plan Policy 9.2.5 require a 35% onsite reduction in CO 2 emissions beyo		91.9 %	
Policy LP 22 B. and L	prart London Plan Policy 9.2.5 require a 35% onsite reduction in ${ m CO}_2$ emissions beyo	nd Building Regulations 2013.		
What is the percentage	ge reduction from efficiency measures alone		31.34 %	
	Oraft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions		0.1.0.1	
	ulations 2013 from efficiency measures for residential and 15% for non-residential.			
, , ,				
Percentage of total si	ite CO2 emissions saved through renewable energy installation?		60.56 %	
What is the total rome	sining carbon to be affect		0.76 Tonne	
What is the total remaining carbon to be offset O.76 Tonne Policy LP 22 B. and Draft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon after offsetting.				
Totaly Et 22 D. and Draft Edition Than Foliopy 3.2.4 require what or destribute to define the Edition of Secting.				
Are remaining emission	ons going to be offset through offset fund payment in accordance with current guideline	es issued for the cost per tonne of CO2?	TRUE	
			2166 £	
What is the total predicted cost of offset? The London Plan sets this as £95/tonne per year over 30 years, this should be updated based on As Build calculations.				
The London Flan Sets	s uns as £55/torine per year over 50 years, uns should be apaated based on As Dalid t	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	elopment:			
Non-Residential new-build (10				
BREEAM Level `	Please Select	Have you attached a pre-assessment to support this?		
Excellent required under Policy				
Extensions and conversions for BREEAM Domestic R		Llove you attached a pre-seement to support this?		
Excellent required under Policy		Have you attached a pre-assessment to support this?		
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 En	ovironmental Rating:		Subtotal 8	
BREEAM:	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		0	
	, , , , , , , , , , , , , , , , , , ,			
4D MINIMUM DOLLOV C	OMBI JANCE (RESIDENTIAL)			

Score

Water Usage

Internal water usage after gray/rainwater systems limited to 105 litres person per day. (Excluding an allowance 5 litres per person per day for external water consumption). Calculations using the water efficiency calculator for new dwellings have been submitted.

110l/p/d Required for new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Policy S15

Subtotal 1

	RGY USE AND POLLUTION			
2.1 Ne	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 Hea	at 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		
	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	2		
	Communal heating and cooling powered by gas or electricity	1		
	Individual heating and cooling	0		
	See Draft London Plan SI3			
	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?			
D.	If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary			
	in yes, piedas electro the burniass guidenies in the burnough of 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			
С.	Tras an an quanty impact assessment been provided If yes, has 'Emissions Neutral' been achieved	4		
	if yes, has Emissions Neutral been achieved. If yes, have occupants of new development been protected from existing pollution	1		
		-1		
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? see Policy LP 10	-1		
	see Policy LP 10			
d.	Please tick only one option below			
u.	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	3		
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1		
	see Policy LP 10	,		
	ose i diej i i i e			
e.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3		
0.	see Policy LP 10			
f.	Have you attached a Lighting Pollution Report?	-		
		Subtotal 21		
Please	Please give any additional relevant comments to the Energy Use and Pollution Section below			
er built	environment in achieving the equivalent BRE standard certification. Therefore this project will submit a Home Quality Mark Pre-Assessment targeting 4.5 Stars, between Exc	ellent and Outst		

3. TRANSPORT

3.1 Provision 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:

e site will provide 2 car charging points as well as charging capacity for 2 electric bikes or motorbikes. This is suitable for the location. Public transport options are also available within walking distan

b.	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?	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. See policy LP44	5	
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) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3	2 4	
f.	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2	
Please	give any additional relevant comments to the Transport Section below	Subtotal 4	
The location is well suited for local amenities including diverse shopping opportunities a short walk away and extensive recreational space.			

4	BIODIVERSITY				
4.1 Mii	nimising the threat to biodiversity from new buildings, lighting, hard surfacing and people				
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)		-2	
	If so, please state how much in sqm?			sqm	
b.	Does your development involve the removal of any tree(s)? (Indicate if yes)	if week			
	If so, has a tree report been provided in support of your application? (Indicate	e ii 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 s	site biodiversity:			
	Pond, reedbed or extensive native planting			357 sqm	
	An extensive green roof			185 sqm	
	An intensive green roof			0 sqm	
	Garden space			24 sqm	
	Additional native and/or wildlife friendly planting to peripheral areas			35 sqm	
	Additional planting to peripheral areas A living wall			100 sqm 0 sqm	
	Bat boxes 0.6			U Sqiii	
	Bird boxes 0.5				
	Swift boxes 0.8				
	Other 0.5				
	D				
e.	Does your development use at least 70% of available roof plate as green/brown roof Policy LP 17 requires 70%			1	
	Folicy LF 17 lequiles 70%			Subtotal 22	
Please	give any additional relevant comments to the Biodiversity Section below			Cubicial 22	
100.00	gradulty and the second				
nting of	multiple scales (shrubs feature extensively) is enhanced with a small pond and a second 'architectural	pond' added for benefit of wildlife and for othe	r environmental benefits. Be	e bricks will I	
5	FLOODING AND DRAINAGE				
	ting 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	
	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 th	at apply)			
	Store rainwater for later use			5	
	Use of infiltration techniques such as porous surfacing materials to allow dra	inage on-site		3	
	Attenuate rainwater in ponds or open water features			4	
	Store rainwater in tanks for gradual release to a watercourse			3	
	Discharge rainwater directly to watercourse			2	
	Discharge rainwater to surface water drain			1 0	
	Discharge rainwater to combined sewer Have you submitted a Drainage Statement (Indicate if yes)			U	
	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 proportion	osal:	143		
v.		please represent a loss in permeable area as		sam	
				sqm	
	Please provide details of the permeable surfacing below			sqm Subtotal 16	
Please					
Please	Please provide details of the permeable surfacing below				
Please	Please provide details of the permeable surfacing below				
	Please provide details of the permeable surfacing below give any additional relevant comments to the Flooding and Drainage Section below			Subtotal 16	
	Please provide details of the permeable surfacing below), honeycomb gravel (77m2)and gravel edgin	g (3m2). The building footpri	Subtotal 16	
	Please provide details of the permeable surfacing below give any additional relevant comments to the Flooding and Drainage Section below), honeycomb gravel (77m2)and gravel edgin	g (3m2). The building footpri	Subtotal 16	

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]

	If so, what percentage of demolition waste will be reused in the new development?	10 %
	What percentage of demolition waste will be recycled?	90 %
b.	Does your site have any contaminated land?	1
	Have you submitted an assessment of the site contamination?	2
	Are plans in place to remediate the contamination?	2
	Have you submitted a remediation plan?	1
	Are plans in place to include composting on site?	1
C.	Will a waste management plan and facilities be in place in line with Policy LP24	YES
6.2 Re	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
	Use of water efficient A or B rated appliances	1
	Rainwater harvesting for internal use	4
	Greywater systems	4
	Fit a water meter	1
		Subtotal 8
Pleas	e give any additional relevant comments to the Improving Resource Efficiency Section below	
constr	uction waste recycling and the contractor will be required to record and report all recycling activity and to aim for the minimum 90% diversion from lar	ndfill. The site is not contaminated, so no n

7	ACCESSIBILITY				
7.1	Ensure flexible adapt	able and long-	term use of structures		
a.	If the development is	residential, wil	I it meet the requirements of the nationally described space standard for internal space and layout?		1
		If the standard	ds are not met, in the space below, please provide details of the functionality of the internal space and layout		
AND	If the development is		it as a t-Duilair a Danulatina Danulaina Danulaina ant M4 (0) (acceptable and adaptable dualities at 0		
b.	if the development is		I it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'? et, in the space below, please provide details of any accessibility measures included in the development.		2
		11 11115 15 1101 11	et, in the space below, please provide details of any accessibility measures included in the development.		
OR			dential developments, are 10% or more of the units in the development to Building Regulation Requirement chair user dwellings'?		1
c.					2
		Please provid	e details of the accessibility measures specified in the Local Plan that will be included in the development		
		,,,,,,			
Subtotal 4				Subtotal 4	
	Please give any additional relevant comments to the Design Standards and Accessibility Section below The owner requires fully accessible design, especial care in detailing will be a feature of the design throughout.				
LBRUT Sus	stainable Construction	Checklist- Sc	oring Matrix for New Construction (Non-Residential and domestic refurb)		TOTAL 84
	Score	Rating	Significance		
	84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development		
	75-83	Α	Makes a major contribution towards achieving sustainable development in Richmond		
	56-74 B Helps to significantly improve the Borough's stock of sustainable developments				
	40-55 C Minimal effort to increase sustainability beyond general compliance				
	39 or less	FAIL	Does not comply with SPD Policy		
LBRUT Sus	stainable Construction	Checklist- Sc	oring 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	В	Helps to significantly improve the Borough's stock of sustainable developments		
	24-38	С	Minimal effort to increase sustainability beyond general compliance		
	24-38 23 or less	C FAII	, , , , ,		
	24-38 23 or less	C FAIL	Minimal effort to increase sustainability beyong general compliance Does not comply with SPD Policy		
Authorisation I herewin	23 or less on:	FAIL	, , , , ,		