LBRUT Sustainable Construction Checklist - June 2020

Excellent required under Policy LP22 A 3

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.

Prop	perty Name (if relevant):	31 The Green		Application N	o. (if known):		
	ress (include. postcode) npleted by:	31 The Green, Base Energy	Richmond, TW9 1LX				
	<i>Non-Residential</i> of development (m2)]	For Residential Number of dwellings	1		
1	MINIMUM COMPLIAN	CE (RESIDENTIA	AL AND NON-RESIDENTIAL)				
Ene			ted that demonstrates the expected energy and carbon dioxide y of CHP/CCHP and community heating systems? If yes, plea		ncy and renewable	TRUE	
Carl		bon dioxide emiss	sions reduction against a Building Regulations Part L (2013) ba Policy 9.2.5 require a 35% onsite reduction in CO $_2$ emission			75.87%	
	Policy LP 22 C. and D	raft London Plan I	fficiency measures alone Policy 9.2.6 require a 10% onsite reduction in CO2 emission n efficiency measures for residential and 15% for non-residen			8.12%	
	Percentage of total sit	e CO2 emissions	saved through renewable energy installation?			36.75 %	
	What is the total remai Policy LP 22 B. and D		offset Policy 9.2.4 require Major developments to achieve Zero Carr	bon after offsetting.		0 Tonne	
	Are remaining emissic	ns going to be off	fset through offset fund payment in accordance with current g	guidelines issued for the cost per tonr	ne of CO2?	FALSE	
	What is the total predic The London Plan sets		? a per year over 30 years, this should be updated based on As	Build calculations.		0£	
1A	MINIMUM POLICY CO	MPLIANCE (NOI	N-RESIDENTIAL AND DOMESTIC REFURBISHMENT)				
			Please check the Guidance Section of this SPD fo	r the policy requirements			
	ironmental Rating of deve						
Non	-Residential new-build (100s BREEAM Level	sqm or more)	Please Select	Have you attached a pre-as	sessment to support this?		Please Select:

Official

Extensions and conversions	s for residential dwelling	S			
BREEAM Domest	ic Refurbishment	Excellent	Have you attached a pre-assessment to support this?		TRUE
Excellent required under P	olicy LP22 A 4				
Extensions and conversions	s for non-residential buil	dings			
BREEAM Level		Please Select	Have you attached a pre-assessment to support this?		Please Select:
Excellent required under P	Policy LP 22				
BREEAM:		Good = 4, Excellent = 8 , Outstanding = 16		Subtotal 8	
	V COMPLIANOE (DEO				
1B MINIMUM POLICY	Y COMPLIANCE (RES				
1B MINIMUM POLIC	Y COMPLIANCE (RES			Score	
1B MINIMUM POLIC	Y COMPLIANCE (RES			Score	

1

1

Subtotal

TRUE

Calculations using the water efficiency calculator for new dwellings have been submitted. 1101/p/d Required for new dwellings under Policy LP22 A 2 1051/p/d required under Draft London Plan Policy SI5

Official

	leed 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	FALSE
	Mechanical ventilation with heat recovery	1	FALSE
	Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
	See Draft London Plan SI4	U	FALJE
	See Drait London Flan Si4		
2.2 He	eat 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	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	FALSE
	Communal heating and cooling powered by gas or electricity	1	FALSE
	Individual heating and cooling	0	TRUE
	See Draft London Plan SI3		
2.3 Pc	ollution: Air, Noise and Light		
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	TRUE
h	Deep the development plan to include a hismony hollow		
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.		
с.	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		
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	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
e.	see Policy LP 10	3	INUE
f.	Have you attached a Lighting Pollution Report?	-	
			-
D		Subtotal 1	3
Please	e give any additional relevant comments to the Energy Use and Pollution Section below		

Please give any additional relevant comments to the Energy Use and Pollution Section below

Due to being a minor site, no air quality reports are required. The development will aim to reduce the need for external lighting and noise and not increase this beyond the previous site.

2. ENERGY USE AND POLLUTION

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:

		Score	
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	FALSE
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	FALSE
	See policy LP44		
d.	For smaller developments ONLY: Have you provided a Transport Statement?	5	FALSE
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?	2	TRUE
	Is this shown on the site plans?		TRUE
	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
Please	give any additional relevant comments to the Transport Section below	Subtotal 2	

FALSE

inimising the threat to biodiversity from new buildings, lighting, hard surfacing and people Does your development involve the loss of an ecological feature or habitat, including a loss of gar	don or other groop a	pace? (Indicate if yes)	-2		FALSE
If so, please state how much in sqm?	den of other greens	pace: (indicate il yes)		sqm	FALSE
			a	_	
Does your development involve the removal of any tree(s)? (Indicate if yes)					FALS
If so, has a tree report been provided in support of your application? (In	dicate if yes)				FALS
Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)					FALS
Please indicate which features and/or habitats that your development will incorporate to improve of	on site biodiversity:			_	
Pond, reedbed or extensive native planting	6	Area provided:	S	sqm	FALS
An extensive green roof	5	Area provided:	5	sqm	FALS
An intensive green roof	4	Area provided:	5	sqm	FALS
Garden space	4	Area provided:	5	sqm	TRU
Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:	5	sqm	TRU
Additional planting to peripheral areas	2	Area provided:		sqm	TRU
A living wall	2	Area provided:		sqm	FALS
Bat boxes	0.5				TRU
Bird boxes	0.5				TRU
Swift boxes	0.5				TRU
Other	0.5				FALS

FALSE

1

Subtotal 10.5

e. Does your development use at least 70% of available roof plate as green/brown roof Policy LP 17 requires 70%

Please give any additional relevant comments to the Biodiversity Section below

Native plants and garden court area will be implemented to increased the ecological value of the property. There will be no reduction in ecology due to being a conversion property.

5	FLOODING AND DRAINAGE		
5.1 Mitiga	ting the risks of flooding and other impacts of climate change in the borough		
а.	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	TRUE
	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:	0 sqm	
	Please provide details of the permeable surfacing below please represent a loss in permeable area as a		
		Subtotal 4	
Please	give any additional relevant comments to the Flooding and Drainage Section below		
6	IMPROVING RESOURCE EFFICIENCY		
	IMPROVING RESOURCE EFFICIENCY educe waste generated and amount disposed of by landfill though increasing level of re-use and recycling		
		1	FALSE
6.1 Re	duce waste generated and amount disposed of by landfill though increasing level of re-use and recycling	1	FALSE
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6.1 Re a. b. c. 6.2 Re	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? What percentage of demolition waste will be recycled? Does your site have any contaminated land? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan? Are plans in place to include composting on site? Will a waste management plan and facilities be in place in line with Policy LP24 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 Use of water efficient A or B rated appliances Rainwater harvesting for internal use	2 1 1	FALSE FALSE FALSE FALSE FALSE TRUE TRUE FALSE
6.1 Re a. b. c. 6.2 Re	will demolition be required 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 waste is reused/recycled] If so, what percentage of demolition waste will be reused in the new development? What percentage of demolition waste will be recycled? Does your site have any contaminated land? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan? Are plans in place to include composting on site? Will a waste management plan and facilities be in place in line with Policy LP24 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 Use of water efficient A or B rated appliances	2 1 1	FALSE FALSE FALSE FALSE FALSE TRUE

Subtotal 2

Please give any additional relevant comments to the Improving Resource Efficiency Section below

Water efficienct fittings will be installed and aim to meet 110L/person/day or less

7 _	ACCESSIBILITY		
7.1	Ensure flexible adaptable and long-term use of structures		
a.	If the development is residential, will it meet the requirements of the nationally described space standard for internal space and layout?	1	TRUE
	If the standards are not met, in the space below, please provide details of the functionality of the internal space and layout		
AND			
э.	If the development is residential, will it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2	FALSE
	If this is not met, in the space below, please provide details of any accessibility measures included in the development.		
	For major residential developments, are 10% or more of the units in the development to Building Regulation Requirement M4	1	FALSE
~ ~	(3) 'wheelchair user dwellings'?		
OR		2	FALSE
с.	If the development is non-residential, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2	FALSE
	Please provide details of the accessibility measures specified in the Local Plan that will be included in the development		
			_
		Subtotal 1	
	give any additional relevant comments to the Design Standards and Accessibility Section below		-
Due to	development being a historic listed building, the development has restrictions on what work can be carried out to make the property more accessible.		

LBRUT Sustainable Construction Checklist- Scoring Matrix for New Construction

(Non-Residential and domestic refurb)

Residential new-build

Score	Rating	Significance
84 or more A+ Project strives to achieve highest standard in energy efficient sustainable developme		Project strives to achieve highest standard in energy efficient sustainable development
75-83	А	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

LBRUT Sustainable Construction Checklist- Scoring Matrix for New Construction

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	A	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
23 or less	FAIL	Does not comply with SPD Policy

Authorisation:

I herewith declare that I have filled in this form to the best of my knowledge

Leb. Signature

Date

08/11/2023