

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): Application No. (if known):

Address (include postcode):

Completed by:

For Non-Residential Size of development (m2) For Residential Number of dwellings

1 MINIMUM COMPLIANCE (RESIDENTIAL AND NON-RESIDENTIAL)

Energy Assessment	
Has an energy assessment been submitted that demonstrates the expected energy and carbon dioxide emissions saving from energy efficiency and renewable energy measures, including the feasibility of CHP/CCHP and community heating systems? If yes, please select TRUE.	<input type="text" value="TRUE"/>
Carbon Dioxide emissions reduction	
What is the on site carbon dioxide emissions reduction against a Building Regulations Part L (2013) baseline <i>Policy LP 22 B. and Draft London Plan Policy 9.2.5 require a 35% onsite reduction in CO₂ emissions beyond Building Regulations 2013.</i>	<input type="text" value="51"/> %
What is the percentage reduction from efficiency measures alone <i>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.</i>	<input type="text" value="-2"/> %
Percentage of total site CO ₂ emissions saved through renewable energy installation	<input type="text" value="53"/> %
What is the total remaining carbon to be offset <i>Policy LP 22 B. and Draft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon after offsetting.</i>	<input type="text" value="0"/> Tonne
Are remaining emissions going to be offset through offset fund payment in accordance with current guidelines issued for the cost per tonne of CO ₂ ?	<input type="text" value="FALSE"/>
What is the total predicted cost of offset? <i>The London Plan sets this as £95/tonne per year over 30 years, this should be updated based on As Build calculations.</i>	<input type="text" value="0"/> £

1A MINIMUM POLICY COMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)

Please check the Guidance Section of this SPD for the policy requirements

Environmental Rating of development		
Non-Residential new-build (100sqm or more) BREEAM Level <input type="text" value="Please Select"/>	Have you attached a pre-assessment to support this?	<input type="text" value="FALSE"/>
Extensions and conversions for residential dwellings BREEAM Domestic Refurbishment <input type="text" value="Please Select"/>	Have you attached a pre-assessment to support this?	<input type="text" value="FALSE"/>
Extensions and conversions for non-residential buildings BREEAM Level <input type="text" value="Please Select"/>	Have you attached a pre-assessment to support this?	<input type="text" value="FALSE"/>
Score awarded for Environmental Rating BREEAM: Good = 0, Very Good = 4, Excellent = 6, Outstanding = 16		Subtotal <input type="text" value="0"/>

1B MINIMUM POLICY COMPLIANCE (RESIDENTIAL)

Water Usage	Score
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. <i>110l/p/d Required for new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Policy S1.</i>	<input type="text" value="1"/> <input type="text" value="FALSE"/>
Subtotal <input type="text" value="0"/>	

2. ENERGY USE AND POLLUTION

2.1 Need 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	<input type="checkbox"/> FALSE
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	<input type="checkbox"/> TRUE
	Reduce heat entering a building through shading	3	<input type="checkbox"/> TRUE
	Exposed thermal mass and high ceilings	4	<input type="checkbox"/> TRUE
	Passive ventilation	3	<input type="checkbox"/> TRUE
	Mechanical ventilation with heat recovery	1	<input type="checkbox"/> TRUE
	Active cooling systems, i.e. Air Conditioning Unit	0	<input type="checkbox"/> TRUE
	<i>See Draft London Plan S14</i>		

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 pol 519) 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	<input type="checkbox"/> FALSE
	Connection to existing heating or cooling networks powered by gas or electricity	5	<input type="checkbox"/> FALSE
	Site wide CHP network powered by renewable energy	4	<input type="checkbox"/> FALSE
	Site wide CHP network powered by gas	3	<input type="checkbox"/> FALSE
	Communal heating and cooling powered by renewable energy	2	<input type="checkbox"/> TRUE
	Communal heating and cooling powered by gas or electricity	1	<input type="checkbox"/> TRUE
	Individual heating and cooling	0	<input type="checkbox"/> FALSE
	<i>See Draft London Plan S13</i>		

2.3 Pollution: Air, Noise and Light			
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	<input type="checkbox"/> TRUE
b.	Does the development plan to include a biomass boiler?		<input type="checkbox"/> 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.		
c.	Has an air quality impact assessment been provided?		<input type="checkbox"/> FALSE
	If yes, has 'Emissions Neutral' been achieved	1	<input type="checkbox"/> Please Select:
	If yes, have occupants of new development been protected from existing pollution	1	<input type="checkbox"/> Please Select:
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1	<input type="checkbox"/> FALSE
	<i>see Policy LP 10</i>		
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	<input type="checkbox"/> FALSE
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1	<input type="checkbox"/> TRUE
	<i>see Policy LP 10</i>		
e.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	<input type="checkbox"/> TRUE
	<i>see Policy LP 10</i>		
f.	Have you attached a Lighting Pollution Report?	-	
		Subtotal	<input type="text" value="22"/>

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

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?		<input type="checkbox"/> Please Select:
	Please explain:		
	<div style="border: 1px solid black; height: 30px; background-color: #e0e0e0;"></div>		
		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	<input type="checkbox"/> Please Select:
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	<input type="checkbox"/> TRUE
	<i>See policy LP44</i>		
d.	For smaller developments ONLY: Have you provided a Transport Statement?	5	<input type="checkbox"/> Please Select:
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	<input type="checkbox"/> TRUE
	Is this shown on the site plans?	80	<input type="checkbox"/> TRUE
	<i>See Local Plan Appendix 3</i>		
f.	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2	<input type="checkbox"/> Please Select:
		Subtotal	<input type="text" value="7"/>

Please 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. 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? -2 Please Select:

	sqm	
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- b. Does your development involve the removal of any tree(s)? (Indicate if yes)
If so, has a tree report been provided in support of your application? (Indicate if yes) TRUE

	TRUE	
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- c. Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes) Please Select:

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- d. Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity:

Pond, reedbed or extensive native planting	6	Area provided:		sqm		Please Select:
An extensive green roof	5	Area provided:		sqm		Please Select:
An intensive green roof	4	Area provided:		sqm		Please Select:
Garden space	4	Area provided:		sqm		Please Select:
Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:		sqm		Please Select:
Additional planting to peripheral areas	2	Area provided:		sqm		TRUE
A living wall	2	Area provided:		sqm		Please Select:
Bat boxes	0.5					Please Select:
Bird boxes	0.5					Please Select:
Swift boxes	0.5					Please Select:
Other	0.5					Please Select:
- e. Does your development use at least 70% of available roof plate as green/brown roof
Policy LP 17 requires 70% 1 Please Select:

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Subtotal 2

Please give any additional relevant comments to the Biodiversity Section below

5 FLOODING AND DRAINAGE

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) -2 FALSE
Have you submitted a Flood Risk Assessment? (Indicate if yes) TRUE

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- 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			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	
- c. *See Policy LP 21 and Draft London Plan SL 13*
Please give the change in area of permeable surfacing which will result from your development proposal: -550 sqm
Please provide details of the permeable surfacing below please represent a loss in permeable area as a negative number

	-550	
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Subtotal 9

Please 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

- 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.]* 1 TRUE
 If so, what percentage of demolition waste will be reused in the new development? 10% %
 What percentage of demolition waste will be recycled? 10 %
- b. Does your site have any contaminated land? 1 Please Select:
 Have you submitted an assessment of the site contamination? 2 Please Select:
 Are plans in place to remediate the contamination? 2 Please Select:
 Have you submitted a remediation plan? 1 Please Select:
 Are plans in place to include composting on site? 1 Please Select:
- c. Will a waste management plan and facilities be in place in line with Policy LP24 Please Select:

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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):

Fitting of water efficient taps, shower heads etc	1			TRUE	
Use of water efficient A or B rated appliances	1			Please Select:	
Rainwater harvesting for internal use	4			Please Select:	
Greywater systems	4			Please Select:	
Fit a water meter	1			TRUE	

Subtotal 3

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

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 Please Select:
 If the standards 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 residential,** will it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings' 2 Please Select:
 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 (3) 'wheelchair 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 TRUE
 Please provide details of the accessibility measures specified in the Local Plan that will be included in the development

Subtotal 2

Please give any additional relevant comments to the Design Standards and Accessibility Section below

LBRUT Sustainable Construction Checklist- Scoring Matrix for New Construction (Non-Residential and domestic refurb) TOTAL 45

Score	Rating	Significance
84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development
75-83	A	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 Sustainable Construction Checklist- Scoring 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	A	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	C	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

Signature W Wimshurst Date 23/09/2020

