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LBRUT SUSTAINABLE CONSTRUCTION CHECKLIST

TO BE FILLED IN FOR ALL RESIDENTIAL DEVELOPMENT PROVIDING ONE OR MORE NEW RESIDENTIAL UNITS, AND ALL OTHER FORMS OF DEVELOPMENT PROVIDING 100sqm OR MORE OF NON-RESIDENTIAL DEVELOPMENT

ALL OTHER CLASSES OF DEVELOPMENT ARE ENCOURAGED TO COMPLY WITH THIS CHECKLIST

This document forms part of the Sustainable Construction Checklist SPD, and should be read in conjunction with the associated Guidance Document. 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. Scores will be awarded for different achievements on site, and a final score attributed to the site as a whole.

Property Name (if relevant): Application No. (if known):
 Development Type:
 Address (include. postcode):
 Completed by:

MINIMUM POLICY COMPLIANCE

Environmental Rating of development:		Rating achieved		
Residential new-build	Code for Sustainable Homes Level	<input type="text" value="Code Level 4"/>	A pre-assessment is required to support this. Has this been provided?	<input checked="" type="checkbox"/>
Non-Residential new-build (100sqm or more)	BREEAM Level	<input type="text" value="BREEAM Excellent"/>	A pre-assessment is required to support this. Has this been provided?	<input checked="" type="checkbox"/>
Extensions and conversions (residential dwellings)	EcoHomes Level	<input type="text" value="Please Select"/>	A pre-assessment is required to support this. Has this been provided?	<input type="checkbox"/>
If other environmental rating sought please state:		<input type="text"/>		

Score awarded for Environmental Rating (this will only be awarded once a pre-assessment is submitted to verify the level achieved): Score
 CSH: Level 3 = 4, Level 4 = 8, Level 5 = 16, Level 6 = 20
 BREEAM: Good = 0, Very Good = 0, Excellent = 8, Outstanding = 16
 EcoHomes: Good = 0, Very Good = 0, Excellent = 8

Accredited Assessors (Please see Guidance document for more details on accredited assessors)
 Have you used a licensed Code for Sustainable Homes, EcoHomes and BREEAM Accredited Assessor respectively?

Energy Assessment (Please see Justification & Guidance document for more details on how to prepare an Energy Assessment)
 An energy assessment is required 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. Has this been submitted? If yes, please tick.

Carbon Dioxide emissions reduction (Please see Justification & Guidance document for more details on how to calculate these figures as part of the Energy Assessment)
 • Percentage of total site CO₂ emissions saved through renewable energy installation?
 • Percentage of regulated CO₂ emissions saved below Building Regulations target level through all low carbon measures?

08 / 1760 / EXT

1. ENERGY USE AND POLLUTION		Score
1.1 Need for Cooling		
a.	How does the development incorporate cooling measures? Tick all that apply:	
	<ul style="list-style-type: none"> • Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sqm <ul style="list-style-type: none"> • Reduce heat entering a building through providing/improving insulation and living roofs and walls • Reduce heat entering a building through shading • Exposed thermal mass and high ceilings • Passive ventilation • Mechanical ventilation with heat recovery • Active cooling systems, i.e. Air Conditioning Unit 	6 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input checked="" type="checkbox"/> 3 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 0 <input type="checkbox"/>
1.2 Heat Generation		
b.	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy 4A.6)? Tick the heating and cooling system that will be used in the development:	
	<ul style="list-style-type: none"> • Connect to existing CCHP/CHP networks • Site-wide CCHP/CHP powered by renewable energy • Gas-fired CCHP/CHP • Communal heating/cooling powered by renewable energy • Communal heating/cooling powered by gas • Individual heating/cooling powered by renewable energy • Individual heating/cooling powered by gas or electricity 	6 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 0 <input type="checkbox"/>
1.3 Pollution: Air, Noise and Light		
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2 <input checked="" type="checkbox"/>
b.	Does the development plan to include a biomass boiler?	- <input type="checkbox"/>
	<ul style="list-style-type: none"> • If yes, please refer to the biomass guidelines for the Borough of Richmond, and 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 	- <input type="checkbox"/>
c.	Please tick only one option below	
	<ul style="list-style-type: none"> • 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 	3 <input type="checkbox"/> 1 <input checked="" type="checkbox"/>
d.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3 <input type="checkbox"/>
e.	Have you attached a Lighting Pollution Report?	- <input type="checkbox"/>
Please give any additional relevant comments to the Energy Use and Pollution Section below		Subtotal <input type="text" value="13.0"/>

2. TRANSPORT

- 2.1 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, such as electric cars? 2
 - b. For major developments ONLY: Has a Transport Assessment been produced for your development based on TfL's Best Practice Guidance? 5
 - If you have provided a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist.
 - c. For smaller developments ONLY: Have you provided a Transport Statement? 5
 - d. Does your development provide cycle storage? 2
 - If so, for how many bicycles? 62
 - Is this shown on the site plans? -
 - e. Will the development create or improve links with local and wider transport networks? If yes, please provide details below. 2

Subtotal 7.0

Please give any additional relevant comments to the Transport Section below

3. BIODIVERSITY

- 3.1 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 compared to the pre-development site? -2
 (Tick if yes)
 - If so, please state how much in sqm? sqm
 - b. Does your development involve the removal of any tree(s)? (Tick if yes) -
 - If so, has a tree report been provided in support of your application? (Tick if yes) -
 - c. Does your development plan to add any tree(s) on site? (Tick if yes) -
 - d. Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity:

<ul style="list-style-type: none"> • Pond, reedbed or extensive native planting 6 <input type="checkbox"/> • An extensive green roof 5 <input type="checkbox"/> • An intensive green roof 4 <input type="checkbox"/> • A brown roof 1 <input type="checkbox"/> • Garden space 4 <input checked="" type="checkbox"/> • Additional native and/or wildlife friendly planting to peripheral areas 3 <input type="checkbox"/> • Additional planting to peripheral areas 2 <input checked="" type="checkbox"/> • A living wall 2 <input type="checkbox"/> • Bat boxes 0.5 <input type="checkbox"/> • Bird boxes 0.5 <input type="checkbox"/> • Other 0.5 <input type="checkbox"/> 	Area provided:	<table style="width: 100%; border-collapse: collapse;"> <tr><td style="border: 1px solid black; height: 15px;"></td><td style="text-align: right;">sqm</td></tr> <tr><td style="border: 1px solid black; height: 15px;"></td><td style="text-align: right;">sqm</td></tr> <tr><td style="border: 1px solid black; height: 15px;"></td><td style="text-align: right;">sqm</td></tr> <tr><td style="border: 1px solid black; height: 15px;"></td><td style="text-align: right;">sqm</td></tr> <tr><td style="border: 1px solid black; height: 15px;"></td><td style="text-align: right;">sqm</td></tr> <tr><td style="border: 1px solid black; height: 15px;"></td><td style="text-align: right;">sqm</td></tr> <tr><td style="border: 1px solid black; height: 15px;"></td><td style="text-align: right;">sqm</td></tr> <tr><td style="border: 1px solid black; height: 15px;"></td><td style="text-align: right;">sqm</td></tr> </table>		sqm		sqm		sqm		sqm		sqm		sqm		sqm		sqm
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Subtotal 6.0

Please give any additional relevant comments, including specific reasons why living roofs cannot be incorporated in proposals with roof plate areas of 100sqm or more should this be the case, to the Biodiversity Section below

4 FLOODING AND DRAINAGE

4.1 Reducing and mitigating the risks of flooding and other impacts of climate change in the borough

a. Is your site located in an area at risk of flooding? (Tick if yes) -

If yes, please tick only ONE option below:

- New development in a high flood risk zone (3a) -2
- New development in a medium flood risk zone (2) -1
- Redevelopment of an existing building or conversion 0

Is your development within 20 metres of a watercourse or a flood defence? (Tick if yes) -

Have you submitted a Flood Risk Assessment? (Tick 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 5
- Use of infiltration techniques such as porous surfacing materials to allow drainage 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
- Discharge rainwater to combined sewer 0

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

[] sqm
 please represent a loss in permeable area as a negative number

Subtotal [1.0]

Please give any additional relevant comments to the Flooding and Drainage Section below

5 IMPROVING RESOURCE EFFICIENCY

- 5.1 Reduce waste generated and amount disposed of by landfill through increasing level of re-use and recycling**
- a. Will demolition be required on your site prior to construction? 0
 • Will 10% of demolition waste or more be reused in the new development? 1
 • Will 15% of demolition waste or more be recycled? 1
- b. Does your site have any contaminated land or has the site previously been used for potentially contaminating uses? 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
- c. Are plans in place to include composting on site? 1
- 5.2 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, dual flush toilets 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
- b. What is the water consumption target of the development (in litres per person per day)? _____
 • The recommended target for conversions or other small scale residential properties is 105 litres/person/day. Will this be met? (Indicate if yes) 1
- c. If applicable, have you submitted evidence that capacity exists in the public sewerage and water supply network?
- Subtotal** 8.0

Please give any additional relevant comments, including reasons why the water consumption target has not been met should this be the case, to the Improving Resource Efficiency Section below

6 DESIGN STANDARDS AND ACCESSIBILITY

6.1 Ensure flexible adaptable and long-term use of structures

- a. If the development is residential, will it meet the requirements set out in the Residential Design Standards SPD for internal space and layout? 1
- 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 the criteria included in the Lifetime Home Standards? 2
- If not all Lifetime Homes criteria are to be met, in the space below, please provide details of any accessibility measures included in the development.

- c. Are 10% or more of the units in the development wheelchair accessible? 1

OR

- d. If the development is non-residential, does it comply with requirements included in Richmond's Design for Maximum Access SPG? 2
- Please provide details of the accessibility measures specified in the Maximum Access SPG 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

TOTAL 53

Score for new construction	Score for extensions or conversions	Rating	Significance
80 or more	70 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development
71-79	61-69	A	Makes a major contribution towards achieving sustainable development in Richmond
51-70	41-60	B	Helps to significantly improve the Borough's stock of sustainable developments
36-50	26-40	C	Minimal effort to increase sustainability beyond general compliance
35 or less	25 or less	FAIL	Does not comply with planning policies on sustainability and climate change

Authorisation:

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

Signature aniel Lichfield and Partners for St Pauls S

Date 11-Nov-13