

**LBRUT Sustainable Construction Checklist - January 2016**

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):	Land to rear of 1-7 Campbell Close	Application No. (if known):	16/2815/OUT	0
Address (include postcode):	Twickenham, TW2 5BZ			4
Completed by:	Fletcher Crane Architects			8
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For Non-Residential Size of development (m2)	135m2 (approx)	For Residential Number of dwellings	1
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**1 MINIMUM COMPLIANCE (RESIDENTIAL AND NON-RESIDENTIAL)**

<b>Energy Assessment</b>	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 tick.	No
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<b>Carbon Dioxide emissions reduction</b>	What is the carbon dioxide emissions reduction against a Building Regulations Part L (2013) baseline <i>Policy DM SD 1 and London Plan Policy 5.2 (2015) require a 35% reduction in CO2 emissions beyond Building Regulations 2013.</i>	
	Percentage of total site CO2 emissions saved through renewable energy installation?	

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

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

<b>Environmental Rating of development:</b>			
<i>Non-Residential new-build (100sqm or more)</i>			
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?	N/A
<i>Extensions and conversions for residential dwellings</i>			
BREEAM Domestic Refurbishment	Please Select	Have you attached a pre-assessment to support this?	
<i>Extensions and conversions for non-residential buildings</i>			
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?	
Score awarded for Environmental Rating: BREEAM: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16			Subtotal 0

**1B MINIMUM POLICY COMPLIANCE (RESIDENTIAL)**

<b>Water Usage</b>	Internal water usage 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.	1
		Subtotal 0

**2 ENERGY USE AND POLLUTION**

<b>2.1 Need for Cooling</b>		<b>Score</b>
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
<b>2.2 Heat Generation</b>		
b.	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy 5.6)? Tick all heating and cooling systems that will be used in the development.	
	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
<b>2.3 Pollution: Air, Noise and Light</b>		
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2
b.	Does the development plan 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 completed the information request form found on the Richmond website.	-
c.	Please tick only one option below	
	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
d.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3
e.	Have you attached a Lighting Pollution Report?	-
		Subtotal 17

Please give any additional relevant comments to the Energy Use and Pollution Section below  
For this outline planning application, we are aiming to establish whether a dwelling will be possible on site. Any later reserved matters application would fully address sustainability. It is the intention of clients to have a wholistic

**3. TRANSPORT**

<b>3.1 Provision for the safe efficient and sustainable movement of people and goods</b>		
a.	Does your development provide opportunities for occupants to use innovative travel technologies?	
	Please explain:	
b.	Does your development include charging point(s) for electric cars?	2
c.	<b>For major developments ONLY:</b> 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
d.	<b>For smaller developments ONLY:</b> Have you provided a Transport Statement?	5
e.	Does your development provide cycle storage? (Standard space requirements are set out in the the Council's Parking Standards - DM DPD Appendix 4)	2
	If so, for how many bicycles?	
	Is this shown on the site plans?	-



