LBRUT Sustainable Construction Checklist - January 2016

Property Name (if relevant):

Red & Yellow Extra Care, Mellis Avenue, Kew

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.

Application No. (if known): 18/3310/FUL

Address (include. postcode) Completed by:	Former Biothane Site, Melliss A AECOM	Avenue, Kew, London, TW9 4BD		
For Non-Residential Size of development (m2)			For Residential Number of dwellings	
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-	RESIDENTIAL)		
		nstrates the expected energy and carbon diox f CHP/CCHP and community heating system	xide emissions saving from energy efficiency and s? If yes, please tick.	Yes
	oxide emissions reduction agains	st a Building Regulations Part L (2013) baselin quire a 35% reduction in CO 2 emissions beyo		35%
Percentage of total si	ite CO2 emissions saved through	renewable energy installation?		31.30%
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTI	AL AND DOMESTIC REFURBISHMENT)		
	Please cl	heck the Guidance Section of this SPD for	the policy requirements	
Environmental Rating of dev				
Non-Residential new-build (10 BREEAM Level Extensions and conversions fo		Excellent	Have you attached a pre-assessment to supp	ort this?
BREEAM Domestic R	Refurbishment	Please Select	Have you attached a pre-assessment to supp	ort this?
Extensions and conversions for BREEAM Level	r non-residential buildings	Please Select	Have you attached a pre-assessment to supp	ort this?
Score awarded for En	nvironmental Rating: Good = 0, Very Good = 4, Exc	cellent = 8, Outstanding = 16		Subtotal 8
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)			
	imited to 105 litres person per da lator for new dwellings have beer		on per day for external water consumption). Calculatio	ns using the 1 Subtotal 1

	ERGY USE AND POLLUTION eed for Cooling	Score
	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 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 2 3 4 3 1 0
2 He	eat Generation	
).	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 Connection to existing heating or cooling networks powered by gas or electricity Site wide CHP network powered by renewable energy Site wide CHP network powered by gas Communal heating and cooling powered by renewable energy Communal heating and cooling powered by gas or electricity Individual heating and cooling	6 5 4 3 2 1 0
	ollution: Air, Noise and Light	
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	✓ 2
).	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.	
: .	Please tick only one option below 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 operation?	√3 √1
d.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	J 3
e.	Have you attached a Lighting Pollution Report?	□ -
	e give any additional relevant comments to the Energy Use and Pollution Section below	Subtotal
3. TRA 3.1 Pro a. Please Yes - (ANSPORT rovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? e explain: Charging points for electric vehicles will cover 20% of parking spaces and access to indoor cycle and mobility scooter storage. el plan will also be produced which will inform the residents and staff of the most sustainable models of transport.	
3.1 Pro a. Please /es - (ANSPORT rovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? e explain: Charging points for electric vehicles will cover 20% of parking spaces and access to indoor cycle and mobility scooter storage. el plan will also be produced which will inform the residents and staff of the most sustainable models of transport.	
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S. TRA S.1 Pro N. Please ('es - ('a trave	ANSPORT rovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? e explain: Charging points for electric vehicles will cover 20% of parking spaces and access to indoor cycle and mobility scooter storage. el plan will also be produced which will inform the residents and staff of the most sustainable models of transport. Does your development include charging point(s) for electric cars? 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. For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the the Council's Parking Standards - DM DPD Appendix 4) If so, for how many bicycles?	√ 5

	Does your developmer	odiversity from new buildings, lighting, hard surfacing and at involve the loss of an ecological feature or habitat, including a		space? (Indicate if yes)	
		If so, please state how much in sqm?			6402.91 sc
	Door your dayalanmar	at involve the removal of any tree(s)? (Indicate if yes)			
	Does your developmen	If so, has a tree report been provided in support of your applica	ition? (Indicate if ves)		-v -v
		in oo, nad a noo ropon boon promada in dapport or your approa	morr. (maioato ii yoo)		
	Does your developmen	at plan to add (and not remove) any tree(s) on site? (Indicate if ye	es)		-
	Please indicate which	eatures and/or habitats that your development will incorporate to		A was a way ii da di	
		Pond, reedbed or extensive native planting An extensive green roof	6 □ 5 □	Area provided: Area provided:	so
		An intensive green roof	5 □ 4 ☑	Area provided:	996
		Garden space	4 🔽	Area provided:	167 sc
		Additional native and/or wildlife friendly planting to peripheral a	reas 3 🗹	Area provided:	2019 so
		Additional planting to peripheral areas	2 🔲	Area provided:	so
		A living wall	2 □ 0.5 ☑	Area provided:	so
		Bat boxes Bird boxes	0.5 V		
		Other	0.5 ✓ 0.5 ✓		
					Subtotal
ease	give any additional relev	ant comments to the Biodiversity Section below			
ther =	Deadwood piles to prov	ide habitat for saproxylic insects.			
ease	refer to the relevent sec	ion within the associated Sustainable Construction Checklist rep	ort for additional comments ar	nd document references,	
	FLOODING AND DRA	INAGE			
itigat	ing the risks of floodin	g and other impacts of climate change in the borough			_
	Is your site located in a	high flood risk zone (Zone 3)? (Indicate if yes)			<u>₽</u> 2
		Have you submitted a Flood Risk Assessment? (Indicate if yes)		✓ -
	Which of the following	measures of the drainage hierarchy are incorporated onto your s	site? (tick all that apply)		
	TTTTION OF AIR TOHOTTHING	Store rainwater for later use	nto: (uon an that appriy)		□ 5
		Use of infiltration techniques such as porous surfacing material	Is 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			□ <i>0</i>
	Please give the change	e in area of permeable surfacing which will result from your deve	elopment proposal:		-1280 so
		e in area of permeable surfacing which will result from your deve of the permeable surfacing below		resent a loss in permeable are	-1280 so
	Please provide details	of the permeable surfacing below		resent a loss in permeable are	
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	ACCESSIBILITY			
7.1 a.		s residential, w	-term use of structures ill it meet the requirements of the nationally described space standard for internal space and layout?	√ 1
		If the standar	ds 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	s residential, w	rill it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	✓ 2
		If this is not n	net, in the space below, please provide details of any accessibility measures included in the development.	
		For major res	sidential developments, are 10% or more of the units in the development to Building Regulation Requirement	☑ 1
			olchair user dwellings'?	
OR				
c.	If the development is		ial, does it comply with requirements included in Richmond's Design for Maximum Access SPG de details of the accessibility measures specified in the Maximum Access SPG that will be included in the	□ 2
		development		
				0
				Subtotal
			to the Design Standards and Accessibility Section below associated Sustainable Construction Checklist report for additional comments and document references.	Subtotal
				Subtotal
Please	e refer to the relevent sec	n Checklist- Se	associated Sustainable Construction Checklist report for additional comments and document references. coring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL
Please	e refer to the relevent sec ustainable Construction Score	n Checklist- So	associated Sustainable Construction Checklist report for additional comments and document references. coring Matrix for New Construction (Non-Residential and domestic refurb) Significance	
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