Official

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):	Barnes Hospital	Application No. (if known):		
Adda - Cashida - Sashada)	Demos Hernist Distance of Leader OW111 001			
Address (include. postcode) Completed by:	Barnes Hospital, Richmond, London SW14 8SU Ainsley Diprose			
Completed by:	Ainsiey Diprose			
For Non-Residential		For Residential		
Size of development (m2)		Number of dwellings 109		
1 MINIMUM COMPLIAN	NCE (RESIDENTIAL AND NON-RESIDENTIAL)			
Energy Assessment				-
	ment been submitted that demonstrates the expected energy and carbon dioxide en	sissions saving from onergy officional and	TRUE	
renewable energy mea	asures, including the feasibility of CHP/CCHP and community heating systems? If ye	s please select TRUF.		
Carbon Dioxide emissions re	eduction			
What is the on site car	bon dioxide emissions reduction against a Building Regulations Part L (2013) baseli	ne	36 %	
Policy LP 22 B. and D	raft London Plan Policy 9.2.5 require a 35% onsite reduction in CO ₂ emissions be	eyond Building Regulations 2013.		
What is the percentage	e reduction from efficiency measures alone		11 %	
Policy LP 22 C. and D	raft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions			
beyond Building Reg	ulations 2013 from efficiency measures for residential and 15% for non-residential.			
Percentage of total sit	e CO2 emissions saved through renewable energy installation?		24 %	
AND IN TO BE ADD. AND ADD.	where a sub-sector back and the set		419 Tonn	
	ining carbon to be offset raft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon	alles alleathing	419 1000	e
POlicy LP 22 B. and D	ran London Plan Policy 9.2.4 require Major developments to achieve zero Carbon	aner onsening.		
Are remaining emissio	ons going to be offset through offset fund payment in accordance with current guide	lines issued for the cost per toppe of CO22	TRUE	
Are remaining emissio	nis going to be onset through onset tand payment in accordance with carrent galac			
What is the total predic	cted cost of offset?		39,830 £	
The London Plan sets	this as £95/tonne per year over 30 years, this should be updated based on As Bu	ild calculations.		
1A MINIMUM POLICY CO	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)			
	Please check the Guidance Section of this SPD for the p	olicy requirements		
Environmental Rating of dev	elopment:			
Non-Residential new-build (100				7
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?		Please Select:
Excellent required under Policy		hare you allocing a pro appoint in coupport inc.		1 10000 001001
Extensions and conversions for				
BREEAM Domestic R	efurbishment Excellent	Have you attached a pre-assessment to support this?		TRUE
Excellent required under Policy				
Extensions and conversions for				
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?		Please Select:
Excellent required under Polic	y LP 22			
Score awarded for En	ironmontal Pating:		Subtotal	8
BREEAM:	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		Subtotal	0
DINEEAW.	Cool 0, tory Cool, Excelent - 0, Outstaining - 10			
1B MINIMUM POLICY CO	DMPLIANCE (RESIDENTIAL)			
			Score	
Water Usage				
	fter gray/rainwater systems limited to 105 litres person per day. (Excluding an allowa	nce 5 litres per person per day for external water		
	tions using the water efficiency calculator for new dwellings have been submitted.		1	TRUE
110l/p/d Required for	new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Po	plicy SI5		
			Subtotal	1

	ad far Capling	Caara		
	ed for Cooling	Score		
	How does the development incorporate cooling measures? Tick all that apply:	6		TRUE
	Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sqm	2		TRUE
	Reduce heat entering a building through providing/improving insulation and living roofs and walls			
	Reduce heat entering a building through shading	3		FALSE
	Exposed thermal mass and high ceilings	4		FALSE
	Passive ventilation	3		FALSE
	Mechanical ventilation with heat recovery	1		TRUE
	Active cooling systems, i.e. Air Conditioning Unit	0		FALSE
	See Draft London Plan SI4			
Hea	at Generation			
	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			
	coling 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
		4 3		FALSE
	Site wide CHP network powered by gas	2		
	Communal heating and cooling powered by renewable energy			TRUE
	Communal heating and cooling powered by gas or electricity	1		TRUE
	Individual heating and cooling	0		FALSE
	See Draft London Plan S/3			
Poll	lution: Air, Noise and Light			
	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2		TRUE
	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			
	in you, please that a the proposed boiler is of a qualifying size, you may need to complete the information request form found on			
	the Richmond website.			
	Has an air quality impact assessment been provided			TRUE
	If as an air quarky impact assessment been provided If yee, 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			
	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			
	see Policy LP 10			
	see Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3		TRUE
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4	BIODIVERSITY		
4.1 Mi	inimising 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)	-2	TRUE
	If so, please state how much in sgm?	sqm	
b.	Does your development involve the removal of any tree(s)? (Indicate if yes)		TRUE
	If so, has a tree report been provided in support of your application? (Indicate if yes)		TRUE
D.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)		FALSE
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:	1188.79 sqm	TRUE
	An extensive manue planning o Area provided:	sam	FALSE
	An iterative green roof 4 Area provided:	914.6 sqm	TRUE
		,057.15 sqm	TRUE
		,183.00 sqm	TRUE
		261.55 sqm	TRUE
	A living wall 2 Area provided:	sam	FALSE
	Bat hoves 05	oqiii	FALSE
	Bird boxes 0.5		TRUE
	Swift boxes 0.5		FALSE
	Other 0.5		TRUE
	Does your development use at least 70% of available roof plate as green/brown roof	4	TRUE
•	Policy LP 17 requires 70%		IRUE
		ubtotal 18	
امعدما	e give any additional relevant comments to the Biodiversity Section below		
sner	e give any additional relevant comments are bodies by Sector below.	level	
	The report continues to state that the removal of an habitat is balanced through the proposed landscaping design.		
abita	at areas are as per the Exterior Design and Access Statement and in line with Urban Greening Factor calculations.		
	FLOODING AND DRAINAGE		
itiaa	In the state of the second sec		
	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
	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	TRUE
	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)		TRUE
	See Policy LP 21 and Draft London Plan SL 13 Please give the chance in area of permeable surfacion which will result from your development proposal: 968 968		
	Please give the change in area of permeable surfacing which will result from your development proposal: Please provide details of the permeable surfacing below please represent a loss in permeable area as a negative number	sqm	
		ubtotal 7	
ease	e give any additional relevant comments to the Flooding and Drainage Section below		
	of Risk Assessment and Drainage Statement have been provided which have informed the above responses.		
	IMPROVING RESOURCE EFFICIENCY		
I Re	educe waste generated 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)	1	TRUE
		1.1	INUE
	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?	1	FALSE
	Have you submitted an assessment of the site contamination?	2	TRUE
	Are plans in place to remediate the contamination?	2	FALSE
	Have you submitted a remediation plan?	1	FALSE
	Are plans in place to include composting on site?	1	FALSE
	Will a unstantiation and for William to in place in the with Default unD24		
	Will a waste management plan and facilities be in place in line with PolicyLP24 Yes		
2 Re	educing levels of water waste		
	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	TRUE
	Rainwater harvesting for internal use	4	FALSE
	Greywater systems	4	FALSE
	Fit a water meter	1	TRUE
		ubtotal 5	
ase	e give any additional relevant comments to the Improving Resource Efficiency Section below requirement within the BREEAM assessment that >80% (by volume) of demolition waste is diverted from landfill. This can be achieved through re-use or recycling.		
al	requirement while the DREEAW assessment that 200% (by volume) of demonstruct waste is diverted norm random. This can be admered through redue of recycling.		

7	ACCESSIBILITY					
7.1 a.	Ensure flexible adap If the development is	table and long residential, wi	term use of structures If it meet the requirements of the nationally described space standard for internal space and layout?	1		TRUE
		If the standard	s 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		I it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'? et, in the space below, please provide details of any accessibility measures included in the development.	2		TRUE
OR			dential developments, are 10% or more of the units in the development to Building Regulation Requirement chair user dwellings?	1		TRUE
c.	If the development is	non-residenti	al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2		FALSE
		Please provide	e details of the accessibility measures specified in the Local Plan that will be included in the development			
		Please provide				
				Subtotal	4	
Please	nive any additional relev	ant comments to	the Design Standards and Accessibility Section below	Subiotal		
LBRUT Su			coring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL	71	
	Score	Rating	Significance			
	84 or more 75-83	A+ A	Project strives to achieve highest standard in energy efficient sustainable development 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	С	Minimal effort to increase sustainability beyond general compliance			
	39 or less	FAIL	Does not comply with SPD Policy			
LBRUT Su	stainable Constructio	n Checklist- So	coring 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	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			
Authorisat	ion:					
Therewith declare that I have filled in this form to the best of my knowledge Signature <u>A Diprose</u> Date 20/08/2012						