## **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):	2 Verdun Road		Application No. (if known):		
Address (include. postcode) Completed by:	2 Verdun Road, Barnes, SW13	9AY			
	Base Energy				
For Non-Residential Size of development (m2)			For Residential Number of dwellings		
1 MINIMUM COMPLIAN	ICE (RESIDENTIAL AND NON-R	ESIDENTIAL)			
Energy Assessment					
		strates the expected energy and carbon of CHP/CCHP and community heating systems.	dioxide emissions saving from energy efficiency and tems? If yes, please select TRUE.	TRUE	
Carbon Dioxide emissions red					
		against a Building Regulations Part L (20 $\mu$ $\mu$ ) uire a 35% onsite reduction in CO $_2$ emis	013) baseline ssions beyond Building Regulations 2013.	49 %	
What is the percentage	e reduction from efficiency measu	res alone		11 %	
-	-	uire a 10% onsite reduction in CO2 emis sures for residential and 15% for non-resi			
Percentage of total site	e CO2 emissions saved through r	enewable energy installation?		38 %	
	ning carbon to be offset raft London Plan Policy 9.2.4 requ	uire Major developments to achieve Zero	Carbon after offsetting.	27 Tonne	
Are remaining emission	ns going to be offset through offse	et fund payment in accordance with curre	ent guidelines issued for the cost per tonne of CO2?	TRUE	
What is the total predic The London Plan sets		0 years, this should be updated based or	n As Build calculations.	2,522 £	
1A MINIMUM POLICY CO	OMPLIANCE (NON-RESIDENTIA	L AND DOMESTIC REFURBISHMENT)			
	Please cl	neck the Guidance Section of this SPD	for the policy requirements		
Environmental Rating of deve	-				
Non-Residential new-build (100 BREEAM Level	sqm or more)	Please Select	Have you attached a pre-assessment to support this?		Please Select:
Excellent required under Policy Extensions and conversions for					
BREEAM Domestic Re Excellent required under Policy	efurbishment	Please Select	Have you attached a pre-assessment to support this?		Please Select:
Extensions and conversions for BREEAM Level	non-residential buildings	Please Select	Have you attached a pre-assessment to support this?		Please Select:
Excellent required under Policy	/ LP 22	Flease Select	Have you attached a pre-assessment to support this?		Please Select.
Score awarded for Env BREEAM:	vironmental Rating: Good = 0, Very Good = 4, Exce	ellent = 8, Outstanding = 16		Subtotal 0	
1B MINIMUM POLICY CO	OMPLIANCE (RESIDENTIAL)				
Water Usage				Score	
Internal water usage at			an allowance 5 litres per person per day for external water		
. ,		alculator for new dwellings have been sub A 2 105l/p/d required under Draft London		1	TRUE
Trompia Regulied for the	.c arronnigo andor i onoy Er 22	. = . 30% p. a . 34an da anadi Dian London		Subtotal 1	

2. ENI	ERGY USE AND POLLUTION		
2.1 N	eed 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	FALSE
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	TRUE
	Reduce heat entering a building through shading	3	FALSE
	Exposed thermal mass and high ceilings	4	TRUE
	Passive ventilation	3	TRUE
	Mechanical ventilation with heat recovery	1	FALSE
	Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
	See Draft London Plan SI4	V	IALUL
	OSS Brait Estraon Flam Cri		
2.2 He	eat Generation		
b.	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		
	cooling 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
	Site wide CHP network powered by gas	3	FALSE
	Communal heating and cooling powered by renewable energy	2	FALSE
	Communal heating and cooling powered by gas or electricity	1	FALSE
	Individual heating and cooling	0	TRUE
	See Draft London Plan SI3		
2.3 Pc	ollution: Air, Noise and Light		
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	TRUE
b.	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		
	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		FALSE
٥.	If yes, 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	-1	TALGE
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	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		
e.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	FALSE
٥.	see Policy LP 10	•	I ALUL
f.	Have you attached a Lighting Pollution Report?	_	
			_
		Subtotal 1	5
	e give any additional relevant comments to the Energy Use and Pollution Section below		
	being a minor site, no air quality reports are required. The development will aim to reduce the need for external lighting and noise and not increase this beyond the previous	s site. Noise	
report	to be carried out		

1 Pı	rovision for the safe efficient and sustainable movement of people and goods  Does your development provide opportunities for occupants to use innovative travel technologies?		FALSE
226	e explain:		
zas	е ехріант.		
		Score	
	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	TRUE
	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	FALSE
	See policy LP44		
	For smaller developments ONLY: Have you provided a Transport Statement?	5	TRUE
	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 2	TRUE
	Is this shown on the site plans? See Local Plan Appendix 3		TRUE
	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2	FALSE
		Subtotal	9
as	e give any additional relevant comments to the Transport Section below		-

4	BIODIVERSITY					
4.1 Mi	nimising 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 g	arden or oth	er green space? (Indicate if yes)			FALSE
	If so, please state how much in sqm?				sqm	
b.	Does your development involve the removal of any tree(s)? (Indicate if yes)					FALSE
	If so, has a tree report been provided in support of your application? (In	idicate if yes	)			TRUE
C.	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	e on site biod	diversity:			
	Pond, reedbed or extensive native planting	6	Area provided:		sqm	FALSE
	An extensive green roof	5	Area provided:	15	sqm	TRUE
	An intensive green roof	4	Area provided:		sqm	FALSE
	Garden space	4	Area provided:	133	sqm	TRUE
	Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:		sqm	TRUE
	Additional planting to peripheral areas	2	Area provided:		sqm	TRUE
	A living wall	2	Area provided:		sqm	FALSE
	Bat boxes	0.5				FALSE
	Bird boxes	0.5				FALSE
	Swift boxes	0.5				FALSE
	Other	0.5				FALSE
	D					<u> </u>
e.	Does your development use at least 70% of available roof plate as green/brown roof			1		FALSE
	Policy LP 17 requires 70%			Subtotal	14	
Please	give any additional relevant comments to the Biodiversity Section below			Cubicial		

		OODING AND DRAINAGE		
5.1	Mitigating	he risks of flooding and other impacts of climate change in the borough		
	a. Is	our site located in a high flood risk zone (Zone 3)? (Indicate if yes)	-2	TRUE
		Have you submitted a Flood Risk Assessment? (Indicate if yes)		TRUE
	b. Wh	nich of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)	5	FALOE
		Store rainwater for later use	0	FALSE
		Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	3	FALSE
		Attenuate rainwater in ponds or open water features	4	FALSE FALSE
		Store rainwater in tanks for gradual release to a watercourse  Discharge rainwater directly to watercourse	2	FALSE
		Discharge rainwater to surface water drain	1	TRUE
		Discharge rainwater to surface water drain  Discharge rainwater to combined sewer	0	TRUE
		Have you submitted a Drainage Statement (Indicate if yes)	·	FALSE
	Se	e Policy LP 21 and Draft London Plan SL 13		771232
		ease give the change in area of permeable surfacing which will result from your development proposal:	sqm	
		ease provide details of the permeable surfacing below please represent a loss in permeable area as		
			Subtotal -1	
	Please give	any additional relevant comments to the Flooding and Drainage Section below		
		A separate Flood Risk and SUDS report should be provided		
		PROVING RESOURCE EFFICIENCY		
		waste generated and amount disposed of by landfill though increasing level of re-use and recycling Il demolition be required on your site prior to construction? [Points will only be awarded if 10% or greater of demolition waste is reused/recycled]		FALCE
	a. Wi	in demonition be required on your site prior to construction? [Forms will only be awarded if 10% of greater of demonition waste is reased/recycled]	1	FALSE
		If so, what percentage of demolition waste will be reused in the new development?	0/2	
		il so, what percentage of demontion waste will be reused in the new development?	/0	
		What percentage of demolition waste will be recycled?	%	
		The process of the contract of		
	b. Do	es your site have any contaminated land?	1	FALSE
		Have you submitted an assessment of the site contamination?	2	FALSE
		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
	c. Wi	ll a waste management plan and facilities be in place in line with Policy LP24	Yes	
		ng levels of water waste		
	a. Wi	If the following measures of water conservation be incorporated into the development? (Please tick all that apply):		TD://
		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 Fit a water meter	4	FALSE FALSE
		Fit a water meter	1	FALSE
			Subtotal 2	
	Please dive	any additional relevant comments to the Improving Resource Efficiency Section below	Subtotal 2	
ı	r lease give	any additional relevant comments to the improving resource Emiciency Section below		
		Water efficienct fittings will be installed and aim to meet 110L/person/day or less		

nationally described space standard for internal space and layout?  ow, please provide details of the functionality of the internal space and layout  quirement M4 (2) 'accessible and adaptable dwellings'?  orovide details of any accessibility measures included in the development.  or more of the units in the development to Building Regulation Requirement	2	TRUE
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or more of the drifts in the development to building regulation requirement	1	FALSE
ints included in Richmond's Local Plan I P1 I P28 R I P30 & I P45	2	FALSE
into included in Nicimonu's Local Flan LF 1, LF20.B, LF30 & LF43	2	PALSE
asures specified in the Local Plan that will be included in the development		
	Subtotal	3
tion (Non-Residential and domestic refurb)	TOTAL	43
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9	ents included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45 easures specified in the Local Plan that will be included in the development  ccessibility Section below	easures specified in the Local Plan that will be included in the development  Subtotal