## 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, 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):	Former Stag Brewery		Application No. (if kr	nown):		
Address (include. postcode)						
Completed by:	Hoare Lea					
	Hoale Lea					
For Non-Residential			For Residential			
Size of development (m2)	21924		Number of dwellings	1071		
, , ,			, , , , , , , , , , , , , , , , , , ,	-		
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIA	AL)				
Energy Assessment						
	sment been submitted that demonstrates the			ncy and	TRUE	
renewable energy me	asures, including the feasibility of CHP/CCHP	and community heating systems? If y	yes, please select TRUE.			
Carbon Dioxide emissions re	dustion					
	rbon dioxide emissions reduction against a Bu	uilding Regulations Part I (2013) hass	aline		73 %	
	Praft London Plan Policy 9.2.5 require a 35%				13 76	
r oney Er 22 B. and E	rait London's fair tolley 3.2.5 require a 3570	make reduction in OO2 emissions bey	yona ballaling regulations 2015.			
What is the percentage	e reduction from efficiency measures alone				10 %	
, ,	Praft London Plan Policy 9.2.6 require a 10%	anaita radustian in CO2 amianiana			10 70	
	ulations 2013 from efficiency measures for res					
beyona Ballaling Reg	ulations 2013 from emclency measures for res	sideritiai arid 1378 for Horr-resideritiai.				
Percentage of total si	te CO2 emissions saved through renewable e	nergy installation?			63 %	
3	•	3,				
What is the total rema	ining carbon to be offset				459 Tonne	
Policy LP 22 B. and D	raft London Plan Policy 9.2.4 require Major de	evelopments to achieve Zero Carbon	after offsetting.			
Are remaining emissi	ons going to be offset through offset fund payr	nent in accordance with current guide	elines issued for the cost per tonne o	f CO2?	TRUE	
What is the total pred	atad aget of offeet?				1307856 £	
	this as £95/tonne per year over 30 years, this	s should be undated based on As Ruii	ld calculations		1307636 £	
THE Edition Flair Set	tans as 250 tornic per year over 50 years, and	salicale be appealed based on As Ball	id calculations.			
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTIAL AND DO	MESTIC REFURBISHMENT)				
	Please check the Gu	idance Section of this SPD for the	nolicy requirements			
		dance section of this of bior the	poncy requirements			
Environmental Rating of dev						
Non-Residential new-build (10						
BREEAM Level Excellent required under Police		xcellent	Have you attached a pre-assess	ment to support this?		TRUE
Extensions and conversions for						
BREEAM Domestic R		xcellent	Have you attached a pre-assess	ment to support this?		TRUE
Excellent required under Police		ROOMONE	nave you allacined a pre access	mont to support and.		11102
Extensions and conversions for						
BREEAM Level	Plea	ase Select	Have you attached a pre-assess	ment to support this?		Please Select:
Excellent required under Police	y LP 22					
Score awarded for Er					Subtotal 16	
BREEAM:	Good = 0, Very Good = 4, Excellent = 8, C	utstanding = 16				
4D MINIMUM DOLLOY O	OMBI IANGE (DEGIDENTIAL)					
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)		*		Score	
Water Usage					Score	
	after gray/rainwater systems limited to 105 litre	es nerson ner day (Excluding an alloy	vance 5 litres per person per day fo	r external water		
	ations using the water efficiency calculator for		rance e muse per person per day to	. Ontornal Hallot	1	TRUE
	new dwellings under Policy LP22 A 2 105l/p/o		olicy SI		•	
, ,		,	•		Subtotal 1	

	ERGY USE AND POLLUTION leed for Cooling	Score	
a.	How does the development incorporate cooling measures? Tick all that apply:	Score	
a.	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	TRUE
	Exposed thermal mass and high ceilings	4	TRUE
	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		
2 2 Ha	eat Generation		
b.	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy \$13). 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 Communal heating and cooling powered by renewable energy	3 2	FALSE TRUE
	Communal heating and cooling powered by gas or electricity  Communal heating and cooling powered by gas or electricity	1	FALSE
	Individual heating and cooling	o	FALSE
	See Draft London Plan SI3		
2.3 Po	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
υ.	Does the development plan to include a biomass boiler?  If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary		FALSE
	in yes, please rient in the broinstas guidelines for the borough of Normano, please seet guidante or supplementary information. If the proposed boiler is of a qualifying ize, you may need to complete the information request form found		
	on the Richmond website.		
C.	Has an air quality impact assessment been provided		TRUE
	If yes, has 'Emissions Neutral' been achieved	1	TRUE
	If yes, have occupants of new development been protected from existing pollution	1	TRUE
	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		
d.	Please tick only one option below		
u.	riesse lick 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	TRUE
f.	see <i>Policy LP 10</i> Have you attached a Lighting Pollution Report?		
1.	nave you attached a Lighting Foliation Neport:		
		Subtotal 23	
Discour	e give any additional relevant comments to the Energy Use and Pollution Section below		
Please			
		rdes more	
The Er	ringry Strategy submitted in support of the applications provides more detail on the Energy Use of the Proposed Development. The Environmental Statement Chapter 10 prolivation on the air quality impacts of the Proposed Development. Chapter 9 provides additional information on the Noise and Vibration assessment. A Lighting Statement also pr		
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4	BIODIVERSITY					
<b>4.1 Mini</b> a.	Does your development	diversity from new buildings, lighting, hard surfacing and peopi involve the loss of an ecological feature or habitat, including a loss of If so, please state how much in sqm?		-2	sqm	FALSE
b.	Does your development	involve the removal of any tree(s)? (Indicate if yes) If so, has a tree report been provided in support of your application?	(Indicate if yes)			FALSE FALSE
C.	Does your development	plan to add (and not remove) any tree(s) on site? (Indicate if yes)				TRUE
d.		atures and/or habitats that your development will incorporate to impr Pond, reedbed or extensive native planting An extensive green roof An intensive green roof Garden space Additional planting to peripheral areas Additional planting to peripheral areas A living wall Bat boxes Bird boxes Swift boxes Other	ove on site biodiversity:  6		sqm sqm sqm sqm sqm sqm	FALSE FALSE TRUE TRUE TRUE TRUE TRUE TRUE TRUE TRU
e.	Does your development Policy LP 17 requires 70	use at least 70% of available roof plate as green/brown roof		1		FALSE
	Policy LP 17 requires 70	176		Subtotal	15	
		nt comments to the Biodiversity Section below Statement sets out the Ecology of the Proposed Development. Archi NAGE	tects plans show the propsals for Green/Brown roo	fs on the Proposed Development.		
5.1 Mitigation	ng the risks of flooding	and other impacts of climate change in the borough high flood risk zone (Zone 3)? (Indicate if yes)		-2		TRUE
a.	is your site located in a	Have you submitted a Flood Risk Assessment? (Indicate if yes)		-2		FALSE
	See Policy LP 21 and D Please give the change Please provide details o	in area of permeable surfacing which will result from your developme f the permeable surfacing below nt comments to the Flooding and Drainage Section below Statement provides further detail on the Flooding and Drainage of th	llow drainage on-site ent proposal: please represent a loss in permeable are	a as a negative number  Subtotal	sqm	TRUE TRUE FALSE FALSE TRUE FALSE TRUE TRUE
6.1 Red	uce waste generated a	nd amount disposed of by landfill though increasing level of re-ued on your site prior to construction? [Points will only be awarded if	ise and recycling	edl 1		TRUE
۵.	vviii domondon po roqui	If so, what percentage of demolition waste will be reused in the new	,	0	To/	
			development?	95	]70 ]a/	
		What percentage of demolition waste will be recycled?		95	%	
b.	Does your site have any	contaminated land? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan? Are plans in place to include composting on site?		1 2 2 1 1		TRUE TRUE TRUE FALSE FALSE
C.	Will a waste manageme	nt plan and facilities be in place in line with Policy LP24		Yes		
<b>6.2 Red</b> a.	ucing levels of water w Will the following measu	aste res of water conservation be incorporated into the development? (Pir fitting of water efficient taps, shower heads etc Use of water efficient A or B rated appliances Rainwater harvesting for internal use Greywater systems Fit a water meter	ease tick all that apply):	1 1 4 4 1		TRUE TRUE FALSE FALSE TRUE
Please	give any additional releva	nt comments to the Improving Resource Efficiency Section below		Subtotal	8	
Chapter	6 of the Environmental S	statement provides information on the Construction, Demolition and F	Refurbishment of the buildings on the Proposed Dev	relopment.		

risa	Score	Rating A+ A B C FAIL  Checklist- Sc Rating A++ A+ A+ B C FAIL C FAIL  C FAIL  C FAIL  C FAIL  C FAIL	oring Matrix for New Construction Significance Project strives to achieve highest standard in energy Makes a major contribution towards achieving susta Helps to significantly improve the Borough's stock or Minimal effort to increase sustainability beyond gen Does not comply with SPD Policy  oring Matrix for New Construction Significance Project strives to achieve highest standard in energy Makes a major contribution towards achieving susta Helps to significantly improve the Borough's stock of Minimal effort to increase sustainability beyond gen Does not comply with SPD Policy	inable development in Richmond f sustainable developments eral compliance  Residential new-build  y efficient sustainable development efficient sustainable development inable development in Richmond f sustainable developments	Date	TOTAL 86	
risa	Score	Rating A+ A B C FAIL  Checklist- Sc Rating A++ A+ A+ B C FAIL C FAIL  C FAIL  C FAIL  C FAIL  C FAIL	Significance Project strives to achieve highest standard in energ Makes a major contribution towards achieving susts Helps to significantly improve the Borough's stock or Minimal effort to increase sustainability beyond gen Does not comply with SPD Policy  oring Matrix for New Construction  Significance Project strives to achieve highest standard in energy Makes a major contribution towards achieving susts Helps to significantly improve the Borough's stock of Minimal effort to increase sustainability beyond gen Does not comply with SPD Policy	y efficient sustainable development inable development in Richmond f sustainable developments eral compliance  Residential new-build  y efficient sustainable development efficient sustainable development inable development in Richmond f sustainable development		TOTAL 86	
ΓSu	Score	Rating	Significance Project strives to achieve highest standard in energ Makes a major contribution towards achieving susts Helps to significantly improve the Borough's stock o Minimal effort to increase sustainability beyond gen Does not comply with SPD Policy  oring Matrix for New Construction  Significance Project strives to achieve highest standard in energy Makes a major contribution towards achieving susts Helps to significantly improve the Borough's stock o Minimal effort to increase sustainability beyond gen	y efficient sustainable development inable development in Richmond f sustainable developments eral compliance  Residential new-build  y efficient sustainable development efficient sustainable development inable development in Richmond f sustainable development		TOTAL 86	
ΓSι	Score	Rating	Significance Project strives to achieve highest standard in energ Makes a major contribution towards achieving susts Helps to significantly improve the Borough's stock o Minimal effort to increase sustainability beyond gen Does not comply with SPD Policy  oring Matrix for New Construction  Significance Project strives to achieve highest standard in energy Makes a major contribution towards achieving susts Helps to significantly improve the Borough's stock o Minimal effort to increase sustainability beyond gen	y efficient sustainable development inable development in Richmond f sustainable developments eral compliance  Residential new-build  y efficient sustainable development efficient sustainable development inable development in Richmond f sustainable development		TOTAL 86	l
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ΓSu	Score   84 or more   75-83   56-74   40-55   39 or less   sustainable Construction   Score   85 or more   68-84	Rating A+ A B C FAIL  1 Checklist- Sc Rating A++ A+	Significance Project strives to achieve highest standard in energ Makes a major contribution towards achieving susts Helps to significantly improve the Borough's stock o Minimal effort to increase sustainability beyond gen Does not comply with SPD Policy  oring Matrix for New Construction  Significance Project strives to achieve highest standard in energy Project strives to achieve highest standard in energy	y efficient sustainable development inable development in Richmond sustainable developments eral compliance  Residential new-build  y efficient sustainable development efficient sustainable development		TOTAL 86	ı
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ΓSu	Score   84 or more   75-83   56-74   40-55   39 or less	Rating  A+  A  B  C  FAIL  Checklist- Sc  Rating	Significance Project strives to achieve highest standard in energ Makes a major contribution towards achieving susta Helps to significantly improve the Borough's stock of Minimal effort to increase sustainability beyond gen Does not comply with SPD Policy  oring Matrix for New Construction  Significance	y efficient sustainable development inable development in Richmond f sustainable developments eral compliance  Residential new-build		TOTAL 86	l
ΓSu	Score   84 or more   75-83   56-74   40-55   39 or less	Rating  A+  A  B  C  FAIL	Significance Project strives to achieve highest standard in energ Makes a major contribution towards achieving susts Helps to significantly improve the Borough's stock of Minimal effort to increase sustainability beyond gen Does not comply with SPD Policy oring Matrix for New Construction	y efficient sustainable development inable development in Richmond f sustainable developments eral compliance		TOTAL 86	I
	Score 84 or more 75-83 56-74 40-55	Rating A+ A B C	Significance Project strives to achieve highest standard in energ Makes a major contribution towards achieving suste Helps to significantly improve the Borough's stock o Minimal effort to increase sustainability beyond gen	y efficient sustainable development inable development in Richmond f sustainable developments		TOTAL 86	l
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	Score 84 or more 75-83 56-74	Rating A+ A B	Significance Project strives to achieve highest standard in energ Makes a major contribution towards achieving susta Helps to significantly improve the Borough's stock or	y efficient sustainable development inable development in Richmond f sustainable developments	,	TOTAL 86	I
	Score 84 or more 75-83	Rating A+ A	Significance Project strives to achieve highest standard in energ Makes a major contribution towards achieving susta	y efficient sustainable development inable development in Richmond		TOTAL 86	l
	Score 84 or more	Rating A+	Significance Project strives to achieve highest standard in energ	y efficient sustainable development		TOTAL 86	I
	Score	Rating	Significance	·	1	TOTAL 86	
				(Non-Residential and domestic refurb)	,	TOTAL 86	
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			ore information on the design standards and accessib				
ase	give any additional relev	ant comments	to the Design Standards and Accessibility Section bel	ow		Subtotal 6	
							_
				Development			
				The Design and Access Statement provides the accessibility measures specified at the Pr			
		Please provid	e details of the accessibility measures specified in the		more information		
	If the development is	non-residentia	al, does it comply with requirements included in Richr	nond's Local Plan LP1, LP28.B, LP30 & LP45		2	TRU
!		M4 (3) 'wheel	chair user dwellings'?				
				the development to Building Regulation Requirement		1	TRU
	If the development is		ill it meet Building Regulation Requirement M4 (2) 'ac et, in the space below, please provide details of any			2	TRU
D							
D							
D							
D		are starten	, mas space scoot, prease provide the	tails of the functionality of the internal space and layout GLA space standard			