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):	Ham Close			Application No.	(if known):		
		B: 1 111 TI 1 TI 1 TI 1 TI 1 TI 1 TI 1 TI	20				
Address (include, postcode) Completed by:	Ham Close, Ha	m, Richmond Upon Thames, London, TW10 7F	<u> </u>				
Completed by:							
For Non-Residential				For Residential			
Size of development (m2)	846			Number of dwellings	452		
1 MINIMUM COMPLIAN	NCE (RESIDENTIA	AL AND NON-RESIDENTIAL)					
I = .							_
Energy Assessment					· ·	TDUE	
		tted that demonstrates the expected energy an			fficiency and	TRUE	
renewable energy me	asures, including i	he feasibility of CHP/CCHP and community hea	aling systems? If ye	s, please select TRUE.			
Carbon Dioxide emissions re	nduction						
		sions reduction against a Building Regulations F	Part I (2012) basalir	20		66 %	
		Policy 9.2.5 require a 35% onsite reduction in C			3	00 70	
Tolley Er 22 B. and B	ran London i lan i	oney 3.2.0 require a 30% onsite reduction in e	JO 2 CITIOSIONS DOY	ona Ballallig Regulations 20 R	,.		
What is the percented	no raduation from	efficiency measures alone				15 %	
	•	· ·	200			15 70	
		Policy 9.2.6 require a 10% onsite reduction in C efficiency measures for residential and 15% fo					
beyona Ballaling Reg	ulations 2013 non	eniciency measures for residential and 15% to	or mon-residential.				
Percentage of total si	ite CO2 emissions	saved through renewable energy installation?				50 %	
r crocinage or total si	ite OOZ emissions	saved through renewable energy mataliation:				50 70	
What is the total rema	aining carbon to be	offset				181.7 Tonne	<u> </u>
		Policy 9.2.4 require Major developments to achi	ieve Zero Carbon at	fter offsetting.			
,		,					
Are remaining emission	ons going to be off	set through offset fund payment in accordance	with current guideling	nes issued for the cost per ton	ne of CO2?	TRUE	
_			-	·			
What is the total predi						517,978 £	
The London Plan sets	s this as £95/tonne	per year over 30 years, this should be updated	d based on As Build	calculations.			
1A MINIMUM POLICY CO	OMPLIANCE (NO	N-RESIDENTIAL AND DOMESTIC REFURBIS	HMENT)				
		Please check the Guidance Section of	this SPD for the po	olicy requirements			
Environmental Rating of dev	elonment.						
Non-Residential new-build (100							7
BREEAM Level	[Excellent		Have you attached a pre-as	sessment to support this?		TRUE
Excellent required under Policy	v LP22 A 3			,			11102
Extensions and conversions fo		ngs					
BREEAM Domestic R		Please Select		Have you attached a pre-as	sessment to support this?		Please Select:
Excellent required under Policy				,	• •		
Extensions and conversions fo		uildings					
BREEAM Level	ſ	Please Select		Have you attached a pre-ass	sessment to support this?		Please Select:
Excellent required under Polic	y LP 22			,	• •		
· ·							-

	Score awarded for Environmental Rating:	Subtotal 8	
	BREEAM: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		
1B	MINIMUM POLICY COMPLIANCE (RESIDENTIAL)		
		Score	
Water	Usage Internal water usage after gray/rainwater systems 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	TRUE
	110l/p/d Required for new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan Policy SI5		
		Subtotal 1	

2. EN	IERGY USE AND POLLUTION		
	Need 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	TRUE
	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	TRUE
	Mechanical ventilation with heat recovery	1	TRUE
	Active cooling systems, i.e. Air Conditioning Unit	0	TRUE
	See Draft London Plan SI4	•	11.02
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	TRUE
	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
			541.0E
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.		TOUE
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	· · · · · · · · · · · · · · · · · · ·	
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1	Please Select:
	see Policy LP 10		
d.	Please tick only one option below		
u.	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	3	TRUE
	Has the development taken measures to reduce existing noise and emiliance the existing soundscape of the site: Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1	TRUE
	see Policy LP 10		TROE
e.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	TRUE
	see Policy LP 10		
f.	Have you attached a Lighting Pollution Report?	_	
	, , , , , , , , , , , , , , , , , , , ,		
		Subtotal	32
Please	se give any additional relevant comments to the Energy Use and Pollution Section below		
	Please see Energist Reports (Energy, Whole Life Carbon, Circular Economy) and Environmental Statement by Greengage		

3.1 P	rovision for the safe efficient and sustainable movement of people and goods			
a.	Does your development provide opportunities for occupants to use innovative travel technologies?			TRUE
Pleas	e explain:			
	Floatic Valida Chamina nainte Pilo stano for a vary of adoptable bilo including asserbitor			
	Electric Vehicle Charging points. Bike stores for a range of adaptable bikes including cargo bikes.	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	Score		
b.	operate satisfactorily in the future expectation of all vehicles being electrically powered?	2		TRUE
	operate satisfactority in the satisfactority and satisfactority periods.			_
C.	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		TRUE
	See policy LP44			
d.	For smaller developments ONLY: Have you provided a Transport Statement?	5		Please Select:
e.	Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3)	2		TRUE
	If so, for how many bicycles?	796		TDUE
	Is this shown on the site plans? See Local Plan Appendix 3			TRUE
f	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	2		FALSE
١.	will the development deate of improve links with local and wash transport networks: if yes, please provide deaths.	_		IALUL
		Subtotal	9	
Pleas	e give any additional relevant comments to the Transport Section below			
	Please see Transport Assessment by Velocity			

4	BIODIVERSITY					
	Minimising 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		enace? (Indicate if yes)		-2	FALSE
u.	If so, please state how much in sqm?	gardon or other groom c	space: (maioate ii yee)		0 sqm	IALOL
	ii oo, piodoo otato non maaniii oqiii.				<u>v</u>]oq	
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 ves)				TRUE
		, ,				
C.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)					TRUE
d.	Please indicate which features and/or habitats that your development will incorporate to impro-	•				
	Pond, reedbed or extensive native planting	6	Area provided:	see Landscape Plans	sqm	TRUE
	An extensive green roof	5	Area provided:	see Landscape Plans	sqm	TRUE
	An intensive green roof	4	Area provided:		0 sqm	FALSE
	Garden space	4	Area provided:	see Landscape Plans	sqm	TRUE
	Additional native and/or wildlife friendly planting to peripheral areas	3	Area provided:	see Landscape Plans	sqm	TRUE
	Additional planting to peripheral areas	2	Area provided:	see Landscape Plans	sqm	TRUE
	A living wall	2	Area provided:		0 sqm	FALSE
	Bat boxes	0.5				TRUE
	Bird boxes	0.5				TRUE
	Swift boxes	0.5				TRUE
	Other	0.5				TRUE
						71102
e.						
	Does your development use at least 70% of available roof plate as green/brown roof				1	TRUE
	Does your development use at least 70% of available roof plate as green/brown roof Policy LP 17 requires 70%				1	TRUE
					1 Subtotal 22	TRUE
	Policy LP 17 requires 70%				1 Subtotal 22	TRUE
					Subtotal 22	TRUE
	Policy LP 17 requires 70%				Subtotal 22	TRUE
	Policy LP 17 requires 70%				Subtotal 22	TRUE
	Policy LP 17 requires 70%	ape Straetgy section of	the Design & Access Stat	ement	Subtotal 22	TRUE
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Please See Sustainability Report by Energist and Flood & Drainage Assessment by Jubb.

6	IMPROVING RESOURCE EFFICIENCY		
6.1 Re	educe waste generated and amount disposed of by landfill though increasing level of re-use and recycling		
a.	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
	If so, what percentage of demolition waste will be reused in the new development?	c5%	
	What percentage of demolition waste will be recycled?	c90%	
	December 1 to be a consideration of the desired and 2	4	FALSE
b.	Does your site have any contaminated land?	1	TRUE
	Have you submitted an assessment of the site contamination?	2	_
	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 week was a support also and familities having least in the with Deliant DO	YES	
C.	Will a waste management plan and facilities be in place in line with Policy LP24	YES	
6.2 Re	ducing levels of water waste		
a.	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
			·
		Subtotal 5	
Please	e give any additional relevant comments to the Improving Resource Efficiency Section below		

24-38

23 or less

С

FAIL

7	ACCESSIBILITY				
7.1			-term use of structures		
a.	If the development is		ll it meet the requirements of the nationally described space standard for internal space and layout?	1	TRUE
		If the standar	ds are not met, in the space below, please provide details of the functionality of the internal space and layout	_	
			N/A		
AND				_	
b.	If the development is	residential, wi	ll it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2	TRUE
		If this is not m	net, in the space below, please provide details of any accessibility measures included in the development.		
			N/A		
		F	idential developments are 40% arrange of the units in the development to Devilation Development	1	TRUE
			idential developments, are 10% or more of the units in the development to Building Regulation Requirement chair user dwellings'?	1	IRUE
OR		WH (3) WHEE	Cital user uwerings :		
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	TRUE
					11.02
		Please provid	le details of the accessibility measures specified in the Local Plan that will be included in the development		
			ase See Design & Access Statement (Community facilities) by W	R	
				Subtotal	
Diagon	aivo any additional rales	ant comments	to the Decign Standards and Associability Section below	Subtotal 6	
Please	give any additional relev	ant comments	to the Design Standards and Accessibility Section below		
BRUT S	ustainable Construction	n Checklist- So	coring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL 95	
	Score	Rating	Significance		
	84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development		
	75-83	A	Makes a major contribution towards achieving sustainable development in Richmond		
	56-74	В	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		
		·			
BRUT S	ustainable Construction	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		

Minimal effort to increase sustainability beyond general compliance

Does not comply with SPD Policy

Official

Authorisation: I herewith declare that I have filled in this form to the best of my knowledge	Made Concil		
	Signature	Date	