## LBRUT Sustainable Construction Checklist - January 2016

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, 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):	STATION YARD	Application No. (if known):	
Address (include. postcode) Completed by:	Station Yard, Twickenham, TW1 4LJ Steven Fidgett		
For Non-Residential Size of development (m2)		For Residential Number of dwellings 46	
1 MINIMUM COMPLIAN	NCE (RESIDENTIAL AND NON-RESIDENTIAL)		
	sment been submitted that demonstrates the expected energy and carbon dioxide en asures, including the feasibility of CHP/CCHP and community heating systems? If ye		Yes
	eduction oxide emissions reduction against a Building Regulations Part L (2013) baseline ondon Plan Policy 5.2 (2015) require a 35% reduction in CO <sub>2</sub> emissions beyond Bu	ilding Regulations 2013.	50%
	te CO2 emissions saved through renewable energy installation?		47%
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)	I'm and a second	
Continuous and a Detinuous of desira	Please check the Guidance Section of this SPD for the po	oncy requirements	
Environmental Rating of deve Non-Residential new-build (100 BREEAM Level Extensions and conversions fo	Osqm or more) Please Select	Have you attached a pre-assessment to support this?	o
BREEAM Domestic R	efurbishment Please Select	Have you attached a pre-assessment to support this?	0
Extensions and conversions fo BREEAM Level	r non-residential buildings Please Select	Have you attached a pre-assessment to support this?	
Score awarded for En BREEAM:	vironmental Rating: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		Subtotal 0
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)		
	imited to 105 litres person per day. (Excluding an allowance 5 litres per person per d lator for new dwellings have been submitted.	ay for external water consumption). Calculations using the	a 1

2. ENE	ERGY USE AND POLLUTION			
2.1 Ne	eed for Cooling	Scor	е	
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/sgm		6	
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	9	2	
	Reduce heat entering a building through shading	2	_	
	Exposed thermal mass and high ceilings		4	
	Passive ventilation		3	
			-	
	Mechanical ventilation with heat recovery		1	
	Active cooling systems, i.e. Air Conditioning Unit	٦	0	
<b>2.2 He</b> b.	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	<b>=</b>	6	
	Connection to existing heating or cooling networks powered by gas or electricity	=	5	
	Site wide CHP network powered by renewable energy	<b>=</b>	4	
	Site wide CHP network powered by gas	Ξ	3	
	Communal heating and cooling powered by renewable energy	2	2	
	Communal heating and cooling powered by gas or electricity	<b>=</b>	1	
	Individual heating and cooling	<b>=</b>	0	
	Ç Ç			
2.3 Po	ollution: Air, Noise and Light			
a.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	7	2	
	· · · ·			
b.	Does the development plan include a biomass boiler?	-	200	
	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.	_		
	On the Northbord website.			
c.	Please tick only one option below			
0.	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	2	3	
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?		1	
	has the development taken care to not create any new noise generation/transmission issues in its intended operation?	-	'	
d.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	2	3	
e.	Have you attached a Lighting Pollution Report?	=	-	
				_
		Subto	tai '	19
	e give any additional relevant comments to the Energy Use and Pollution Section below			
The bu	management will form part of the CEMP to prevent fugitive dust sources. Lighting will be fully shielded downlights and kept to the minimum necessary.  uilding fully encloses the site and raises the wall along the railway reducing the effect of the dominant noise source to the residential environment of Station Yard.  ng car movements and noise associated with the 19 space car park are eliminated.			

## 3. TRANSPORT

3.1 Provision for the safe efficient and sustainable movement of people and goods
 a. Does your development provide opportunities for occupants to use innovative travel technologies?

Ы	e	ase	explain:

This is a car free development and priority is given to pedestrian, cycle and public transport. · 2 b. 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? - 5 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? = **5** d.
- 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?
  Is this shown on the site plans?
- $Will the \ development \ create \ or \ improve \ links \ with \ local \ and \ wider \ transport \ networks? \ If \ yes, \ please \ provide \ details.$ f.

Subtotal 11

Please give any additional relevant comments to the Transport Section below enhanced pedestrian and cycle movement through enhanced public realm, pavement crossovers, reduced car parking, enhanced pedestrian crossing points and hard and soft landscaping.

4.1 Min a.	imicing the threat to h				
a.	illinaning the timeat to b	iodiversity from new buildings, lighting, hard surfacing and	l people		
	Does your developme	nt involve the loss of an ecological feature or habitat, including	a loss of garden or other green	n space? (Indicate if yes)	<b>□ -2</b>
		If so, please state how much in sqm?			sqm
b.	Does your developme	nt involve the removal of any tree(s)? (Indicate if yes)	antiana (Indianta ifa)		_
		If so, has a tree report been provided in support of your appli	cation? (indicate if yes)		-
c.	Does your developme	nt plan to add (and not remove) any tree(s) on site? (Indicate if	vesl		5
0.	Docs your developme	in plan to add (and not remove) any tree(s) on site: (maleate in	yes)		
d.	Please indicate which	features and/or habitats that your development will incorporate	to improve on site biodiversity		
۵.	T TOGOG ITTGTGGG WITHOTT	Pond, reedbed or extensive native planting	6 <sup>n</sup>	Area provided:	sqm
		An extensive green roof	<b>5</b> z	Area provided:	sqm
		An intensive green roof	4 0	Area provided:	sqm
		Garden space	4 u	Area provided:	sqm
		Additional native and/or wildlife friendly planting to peripheral		Area provided:	sqm
		Additional planting to peripheral areas	2 "	Area provided:	sqm
		A living wall	2 "	Area provided:	sqm
		Bat boxes	0.5 🛚		
		Bird boxes	0.5		
		Other	0.5 "		0
Dia	alica and alicenter of the	and comments to the Diadhuard's Continue to the			Subtotal 1
		vant comments to the Biodiversity Section below in public realm and landscape planting within the site based on	obruba and other setting at an	angoing New good are reaf averaged at	o development
5 Mitigat	FLOODING AND DRA	UNAGE g and other impacts of climate change in the borough			
a.		g and other impacts of climate change in the borough a high flood risk zone (Zone 3)? (Indicate if yes)			o -2
a.	is your site located III	Have you submitted a Flood Risk Assessment? (Indicate if ye	es)		0 -2
		That's you submitted a ricourtient ricoustinistic (indicate in y	55,		
b.	Which of the following	measures of the drainage hierarchy are incorporated onto you	r site? (tick all that apply)		
		Store rainwater for later use	( )		<b>5</b>
		Use of infiltration techniques such as porous surfacing mater	rials to allow drainage on-site		a 3
		Attenuate rainwater in ponds or open water features			٦ 4
		Store rainwater in tanks for gradual release to a watercourse			м 3
		Discharge rainwater directly to watercourse			° 2
					_
		Discharge rainwater to surface water drain			0 1
		Discharge rainwater to surface water drain Discharge rainwater to combined sewer			_
c	Please give the chang	Discharge rainwater to combined sewer	velopment proposal:		- 1 - 0
c.		Discharge rainwater to combined sewer e in area of permeable surfacing which will result from your dev		epresent a loss in permeable area as a pegaja	220 sqm
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7	ACCESSIBILITY			
7.1			erm use of structures	
a.	if the development is		it meet the requirements of the nationally described space standard for internal space and layout?	□ 1
		if the standard	Is are not met, in the space below, please provide details of the functionality of the internal space an	diayout
AND				
b.	If the development is	residential, wil	it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	<b>2</b>
		If this is not m	et, in the space below, please provide details of any accessibility measures included in the developr	nent.
		For major resi	dential developments, are 10% or more of the units in the development to Building Regulation Requi	rement a 1
			chair user dwellings'?	Tomork .
OR			· ·	
C.	If the development is	non-residentia	I, does it comply with requirements included in Richmond's Design for Maximum Access SPG	<b>2</b>
			e details of the accessibility measures specified in the Maximum Access SPG that will be included in	the
		development		
				Subtotal 4
Please	give any additional relev	ant comments	o the Design Standards and Accessibility Section below	
	<u> </u>			
I DDIIT C.	istainable Construction	Charlist Sa	ring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL 63
LBROT St	Score	Rating	ring Matrix for New Construction (Non-Residential and domestic refurb)  Significance	TOTAL 63
	80 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development	
	71-79	A	Makes a major contribution towards achieving sustainable development in Richmond	
	51-70	В	Helps to significantly improve the Borough's stock of sustainable developments	
	36-50	С	Minimal effort to increase sustainability beyond general compliance	
	35 or less	FAIL	Does not comply with SPD Policy	
LBRUT St	stainable Construction	Checklist- Sco	ring Matrix for New Construction Residential new-build	
	Score	Rating	Significance	
	81 or more	A++	Project strives to achieve highest standard in energy efficient sustainable development	
	64-80	A+	Project strives to achieve highest standard in energy efficient sustainable development	
	55-63	Α	Makes a major contribution towards achieving sustainable development in Richmond	
	35-54	В	Helps to significantly improve the Borough's stock of sustainable developments	
	20-34	С	Minimal effort to increase sustainability beyond general compliance	
	19 or less	FAIL	Does not comply with SPD Policy	
	13 01 1033	IAL	Does not comply wan of D I only	
Authorisa				
I herev	vith declare that I have fill	led in this form	o the best of my knowledge	
			Bio Comment	
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			o the best of my knowledge Signature	Date #######