LBRUT Sustainable Construction Checklist - Draft for Consultation, September 2015

45-49 Station Road

Property Name (if relevant):

This document forms part of the Sustainable Construction Checklist SPD. This documentmust 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.

Application No. (if known):

Address (include. postcode) Completed by:	45-49 Station Road, Hampton, TW Metropolis Green Ltd Clive Chapman Architects	12 2BU		
For Non-Residential Size of development (m2)	372		For Residential Number of dwellings	
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RES	SIDENTIAL)		
		ates the expected energy and carbon dioxid	e emissions saving from energy efficiency and If yes, please tick.	Yes
	oxide emissions reduction against a E	Building Regulations Part L (2013) baseline e a 35% reduction in CQ emissions beyond	Building Regulations 2013.	35%
Percentage of total s	ite CO2 emissions saved through ren	ewable energy installation?		20.35%
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTIAL A	AND DOMESTIC REFURBISHMENT)		
	Please check	the Guidance Section of this SPD for th	e policy requirements	
Environmental Rating of dev				
Non-Residential new-build (10 BREEAM Level Extensions and conversions for		Excellent	Have you attached a pre-assessment to support this?	7
BREEAM Domestic F	Refurbishment	Please Select	Have you attached a pre-assessment to support this?	
Extensions and conversions for BREEAM Level	or non-residential buildings	Please Select	Have you attached a pre-assessment to support this?	
Score awarded for Er BREEAM:	nvironmental Rating: Good = 0, Very Good = 4, Exceller	nt = 8, Outstanding = 16		Subtotal 8
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)			
	limited to 105 litres person per day. (E lator for new dwellings have been sut		per day for external water consumption). Calculations using the	ne

	ed for Cooling	Score
	How does the development incorporate cooling measures? Tick all that apply:	□ 6
	Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sqm Reduce heat entering a building through providng/improving insulation and living roofs and walls	□ 6
	Reduce heat entering a building through shading	☑ 3
	Exposed thermal mass and high ceilings	□ 4
	Passive ventilation	☐ 4 ☑ 3
	Mechanical ventilation with heat recovery	 1
	Active cooling systems, i.e. Air Conditioning Unit	□ <i>o</i>
: He	at Generation	
	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy5.6)? Tick all heating and	
	cooling systems that will be used in the development:	_
	Connection to existing heating or cooling networks powered by renewable energy	□ 6 □ 5 □ 4 □ 3 □ 2 □ 1
	Connection to existing heating or cooling networks powered by gas or electricity Site wide CUID pobused accuracy to recognize the control of	H ²
	Site wide CHP network powered by renewable energy Site wide CHP network powered by gas	H *
	Communal heating and cooling powered by renewable energy	Πž
	Communal heating and cooling powered by gas or electricity	□ 1
	Individual heating and cooling	☑ 0
Po	Ilution: Air, Noise and Light	
	Does the development plan to implement reduction strategies for dust emissions from construction sites?	□ 2
	Does the development also include a hismosc holing	□-
	Does the development plan include a biomass boiler?	□-
	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	
	information: if the proposed botter is or a qualifying size, you may need to completed the information request form found on the Richmond website.	□-
	on the national acceptance	_
	Please tick only one option below	_
	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	☑ 3
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	□ 1
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	
		_
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? Have you attached a Lighting Pollution Report?	
Pase	Have you attached a Lighting Pollution Report?	_
		□ - Subtotal
ust ht F	Have you attached a Lighting Pollution Report? give any additional relevant comments to the Energy Use and Pollution Section below omer car parking will be incorporated into the site, which will minimise on-street car parking within the local area, and 10 cycle storage space will be provided for the emollution: A more domestic approach to lighting rather than industrial.	□ - Subtotal
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IRA Pro	Have you attached a Lighting Pollution Report? give any additional relevant comments to the Energy Use and Pollution Section below oner car parking will be incorporated into the site, which will minimise on-street car parking within the local area, and 10 cycle storage space will be provided for the emoliton. A more domestic approach to lighting rather than industrial. Pollution: Reduction in the size and scope of the existing workshops should positively improve noise pollution to the area. INSPORT INSPORT INSPORT INSPORT Does your development provide opportunities for occupants to use innovative travel technologies? Insport acycle opportunities for occupants to use innovative travel technologies? Insport acycle opportunities for occupants to use innovative travel technologies? Insport 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? 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? 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?	subtotal ployees/users of 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

		biodiversity from new buildings, lighting, hard surfacing and people	_
	Does your developme	ent involve the loss of an ecological feature or habitat, including a loss of garden or other green space? (Indicate if yes) If so, please state how much in sqm?	□-2 sqm
	Does your developme	ent 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)	- <u>-</u>
	Does your developme	ent plan to add (and not remove) any tree(s) on site? (Indicate if yes)	
	Please indicate which	I features and/or habitats that your development will incorporate to improve on site biodiversity: Pond, reedbed or extensive native planting An extensive green roof An intensive green roof An intensive green roof An intensive green roof Additional native and/or wildlife friendly planting to peripheral areas Additional planting to peripheral areas Aliving wall Bat boxes Other Area provided:	247 sqm
ase	give any additional rele	evant comments to the Biodiversity Section below	Subtotal 15
iga		ng and other impacts of climate change in the borough a high flood risk zone (Zone 3)? (Indicate if yes)	
		Have you submitted a Flood Risk Assessment? (Indicate if yes)	-
		Store rainwater for later use Use of infiltration techniques such as porous surfacing materials to allow drainage on-site Attenuate rainwater in ponds or open water features Store rainwater in tanks for gradual release to a watercourse	□ 5 □ 3 □ 4
		Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to combined sewer	□ 3 □ 2 □ 1 □ 0
		Discharge rainwater directly to watercourse Discharge rainwater to surface water drain	☐ 1 ☑ 0 1790 sqm
	Please provide details	Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal:	1790 sqm
is	Please provide details give any additional rele within Flood Zone 1	Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal: s of the permeable surfacing below please represent a loss in permeable area as a large of the permeable surfacing below	1790 sqm
is S	Please provide details give any additional rele within Flood Zone 1 RH-05E Site Plan' for fu	Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal:	1790 sqm
is S	Please provide details give any additional rele within Flood Zone 1 RH-05E Site Plan' for fu IMPROVING RESOU duce waste generated	Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal: s of the permeable surfacing below please represent a loss in permeable area as a revent comments to the Flooding and Drainage Section below urther information regarding permeable materials	1790 sqm
is S	Please provide details give any additional rele within Flood Zone 1 RH-05E Site Plan' for fu IMPROVING RESOU duce waste generated	Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to surface water drain Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal: please represent a loss in permeable area as a levent comments to the Flooding and Drainage Section below author information regarding permeable materials RCE EFFICIENCY and amount disposed of by landfill though increasing level of re-use and recycling	1790 sqm negative number Subtotal 3
is S	Please provide details give any additional rele within Flood Zone 1 RH-05E Site Plan' for fu IMPROVING RESOU duce waste generated	Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to surface water drain Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal: please represent a loss in permeable area as a levant comments to the Flooding and Drainage Section below wither information regarding permeable materials RCE EFFICIENCY and amount disposed of by landfill though increasing level of re-use and recycling uired on your site prior to construction? [Points will only be awarded if 10% or greater of demolition waste is reused/recycled.	1790 sqm negative number Subtotal 3
is S	Please provide details give any additional rele within Flood Zone 1 RH-05E Site Plan' for fu IMPROVING RESOU duce waste generated Will demolition be req	Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to surface water drain Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal: softhe permeable surfacing below please represent a loss in permeable area as a love and comments to the Flooding and Drainage Section below auther information regarding permeable materials RCE EFFICIENCY and amount disposed of by landfill though increasing level of re-use and recycling uired on your site prior to construction? [Points will only be awarded if 10% or greater of demolition waste is reused/recycled. If so, what percentage of demolition waste will be reused in the new development? What percentage of demolition waste will be recycled? What percentage of demolition waste will be recycled? Have you submitted an assessment of the site contamination? Have you submitted a remediation plan?	1790 sqm negative number Subtotal 3
Re	Please provide details give any additional rele within Flood Zone 1 RH-05E Site Plan' for fu IMPROVING RESOU duce waste generated Will demolition be req Does your site have a	Discharge rainwater directly to watercourse Discharge rainwater to surface water drain Discharge rainwater to surface water drain Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal:	1 1 2 0 1 1 1 1 1 1 1 1
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	ACCESSIBILITY			
1		table and long	-term use of structures	
	If the development is		ill it meet the requirements of the nationally described space standard for internal space and layout?	✓ 1
		If the standar	ds are not met, in the space below, please provide details of the functionality of the internal space and layout	
ND				
	If the development is	residential, w	ill it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	
		If this is not n	net, in the space below, please provide details of any accessibility measures included in the development.	_
			sidential developments, are 10% or more of the units in the development to Building Regulation Requirement	□ 1
_		M4 (3) 'whee	Ichair user dwellings'?	
R	If the development is	non-resident	ial, does it comply with requirements included in Richmond's Design for Maximum Access SPG	
	ii die developillent is		tal, does it comply with requirements included in Richmond's Design for Maximum Access SPG the accessibility measures specified in the Maximum Access SPG that will be included in the	<u>Ľ</u> 2
		development		
			See Design and Access Statement for further information	
				Subtotal
	give any additional rele esign and Access Stater		to the Design Standards and Accessibility Section below information	Subtotal
				Subtotal
ee D	sign and Access Stater	nent for further	information coring Matrix for <i>New Construction</i> (Non-Residential and domestic refurb) <i>TOT</i>	
ee D	ustainable Constructio	nent for further n Checklist- Se	information coring Matrix for <i>New Construction</i> (Non-Residential and domestic refurb) <i>TOT</i> [Significance	
ee D	ustainable Constructio Score 80 or more	n Checklist- So Rating A+	information coring Matrix for New Construction (Non-Residential and domestic refurb) Significance Project strives to achieve highest standard in energy efficient sustainable development	
ee D	ustainable Constructio Score 80 or more 71-79	n Checklist- So Rating A+ A	coring Matrix for New Construction (Non-Residential and domestic refurb) TOT Significance Project strives to achieve highest standard in energy efficient sustainable development Makes a major contribution towards achieving sustainable development in Richmond	
ee D	ustainable Constructio Score 80 or more 71-79 51-70	n Checklist- So Rating A+	coring Matrix for New Construction (Non-Residential and domestic refurb) TOT Signifficance Project strives to achieve highest standard in energy efficient sustainable development Makes a major contribution towards achieving sustainable development in Richmond Helps to significantly improve the Borough's stock of sustainable developments	
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JT Si	ustainable Construction Score 80 or more 71-79 51-70 36-50 35 or less ustainable Construction	n Checklist-Si Rating A+ A B C FAIL	coring Matrix for New Construction (Non-Residential and domestic refurb) Signifficance Project strives to achieve highest standard in energy efficient sustainable development Makes a major contribution towards achieving sustainable development in Richmond 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 coring Matrix for New Construction Residential new-build	
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