## Twickenham Riverside Sustainable Construction Checklist





## **Design Team**

Applicant London Borough of Richmond upon Thames

Project Manager Arcadis

**Architect** Hopkins Architects

Landscape Architect LDA Design

Structural Engineer Webb Yates Engineers

Mechanical & Electrical Engineer Skelly & Couch

Transport Consultant WSP

Quantity Surveyor Arcadis

Planning Consultant Savills

Townscape & Heritage Consultant Iceni Projects

Sustainability Consultant Method Consulting

Accessibility Consultant Lord Consultants

Fire Consultant FDS Consult UK

Ecology Consultant BSG Ecology

Arboricultural Consultant Thomson Environmental Consultants

Daylight & Sunlight Consultant GIA Chartered Surveyors

Acoustic Consultant TetraTech

Air Quality Consultant Entran

Land Contamination Consultant Geosphere Environmental

Archaeological ConsultantAOC Archaeology Group

Viability Consultant Lambert Smith Hampton

Principal Designer Nick Perry Associates

BIM Consultant BIM Technologies

## 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):	Twickenham Riverside	Application No. (if known):	
Address (include, postcode)	1, 1A, 1B and 1C King Street; 2-4 Water Lane; the site of the former swimming	pool and associated buildings. The Embankment: the Diamo	nd Juhilee Gardens
Completed by:	1, 17, 18 and 16 king etteet, 2 1 Water Earle, the ette of the fermion emining	poor and accordated bandings, the Embanismont, the Biame	na sabilos daracho, i
	Method Consulting LLP		
For Non-Residential		For Residential	
Size of development (m2)	1387	Number of dwellings 45	
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)		
I WIINIWOW COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)		
Energy Assessment			
	sment been submitted that demonstrates the expected energy and carbon dioxide asures, including the feasibility of CHP/CCHP and community heating systems? If		TRUE
renewable energy me	ascres, including the reasibility of CHP/CCHP and community heating systems? In	yes, piease select ThoE.	
Carbon Dioxide emissions re			
	rbon dioxide emissions reduction against a Building Regulations Part L (2013) bas Praft London Plan Policy 9.2.5 require a 35% onsite reduction in CO 2 emissions be		54 %
Policy LP 22 B. and L	rail London Plan Policy 9.2.5 Tequire a 35% onsite reduction in ${\it CO}_2$ emissions be	eyona Bullaing Regulations 2013.	
What is the percentag	ge reduction from efficiency measures alone		15 %
	Oraft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emissions		<u></u>
beyond Building Reg	ulations 2013 from efficiency measures for residential and 15% for non-residential.		
Percentage of total si	te CO2 emissions saved through renewable energy installation?		39 %
	aining carbon to be offset Oraft London Plan Policy 9.2.4 require Major developments to achieve Zero Carbon	after offsetting	1304.1 Tonne
Tolley Er ZZ B. and E	rait Edition Flair Gilly 3.2.4 require major developments to demove 2010 Galbon	and onsetting.	
Are remaining emission	ons going to be offset through offset fund payment in accordance with current guide	elines issued for the cost per tonne of CO2?	TRUE
What is the total pred	icted cost of offset?		123892 €
	this as £95/tonne per year over 30 years, this should be updated based on As Bu	ild calculations.	
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)		
	Please check the Guidance Section of this SPD for the	nolicy requirements	
Environmental Rating of dev		pondy requirements	
Non-Residential new-build (10)			
BREEAM Level	Excellent	Have you attached a pre-assessment to support this?	
Excellent required under Policy Extensions and conversions for			
BREEAM Domestic F		Have you attached a pre-assessment to support this?	
Excellent required under Policy			
Extensions and conversions for BREEAM Level	r non-residential buildings  Please Select	Have you attached a pre-assessment to support this?	
Excellent required under Police		riave you attached a pre-assessment to support this:	
Score awarded for En	vironmental Rating:		Subtotal 8
BREEAM:	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		oubtotui o
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)		Score
Water Usage			Georg
	after gray/rainwater systems limited to 105 litres person per day. (Excluding an allo		
	ations using the water efficiency calculator for new dwellings have been submitted. new dwellings under Policy LP22 A 2 105l/p/d required under Draft London Plan P.		1
			Subtotal 1

ι.	eed for Cooling	Score
	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
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	2
	Reduce heat entering a building through shading	3
	Exposed thermal mass and high ceilings	4
	Passive ventilation	3
	Mechanical ventilation with heat recovery	1
	Active cooling systems, i.e. Air Conditioning Unit	0
	See Draft London Plan SI4	
2 На	at Generation	
	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
	Connection to existing heating or cooling networks powered by gas or electricity	5
	Site wide CHP network powered by renewable energy	4
	Site wide CHP network powered by gas	3
	Communal heating and cooling powered by renewable energy	2
	Communal heating and cooling powered by gas or electricity	1
	Individual heating and cooling	0
	See Draft London Plan Sl3	
Po	Ilution: Air, Noise and Light	
	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2
	Describe development also to include a biomera heilard	
	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	
	information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found	
	on the Richmond website.	
	Has an air quality impact assessment been provided	
	If yes, has 'Emissions Neutral' been achieved	1
	If yes, have occupants of new development been protected from existing pollution	1
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1
	see Policy LP 10	
	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
	see Policy LP 10	•
		,
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3
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4	BIODIVERSITY			
<b>4.1 Min</b> a.	imising the threat to bi	iodiversity from new buildings, lighting, hard surfacing and people ti 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?	-2 630 sqm	
b.	Does your developmen	ti 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)		
c.	Does your developmen	at plan to add (and not remove) any tree(s) on site? (Indicate if yes)		
d.	Please indicate which f	eatures and/or habitats that your development will incorporate to improve on site biodiversity:  Pond, reedbed or extensive native planting An extensive green roof An extensive green roof 4 Area provided: Area provided: Area provided: Area provided: Adalitional native and/or wildlife friendly planting to peripheral areas Additional planting to peripheral areas A living wall Bat boxes Bird boxes 0.5 Bird boxes 0.5 Swift boxes 0.5 Other 0.5	\$qm 67.3 sqm sqm 1520 sqm sqm sqm 0.04	
e.	Does your developmen Policy LP 17 requires 7	at use at least 70% of available roof plate as green/brown roof 70%	1 Subtotal 10	
Please	give any additional relev	ant comments to the Biodiversity Section below	Subtotal 10	
5	FLOODING AND DRA			
Mitigat a.		g and other impacts of climate change in the borough high flood risk zone (Zone 3)? (Indicate if yes)	-2	
	•	Have you submitted a Flood Risk Assessment? (Indicate if yes)		
b.	Which of the following	measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)		
		Store rainwater for later use Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	5 3	
		Attenuate rainwater in ponds or open water features	4	
		Store rainwater in tanks for gradual release to a watercourse Discharge rainwater directly to watercourse	3 2	
		Discharge rainwater orecity to watercourse  Discharge rainwater to surface water drain	1	
		Discharge rainwater to combined sewer	0	
	Con Policy I P 21 and I	Have you submitted a Drainage Statement (Indicate if yes)  Draft London Plan SL 13		
C.		e in area of permeable surfacing which will result from your development proposal:	1034 sqm	
		of the permeable surfacing below please represent a loss in permeable area	as a negative number	
Please	nive any additional relev	ant comments to the Flooding and Drainage Section below	Subtotal 7	
		neable paving (50% area assumed based on SuDS report, page 29).		
6	IMPROVING RESOUR			
6.1 Rec		amount disposed of by landfill though increasing level of re-use and recycling lired on your site prior to construction? [Points will only be awarded if 10% or greater of demolition waste is reused/recycled.	oled] 1	
		If so, what percentage of demolition waste will be reused in the new development?	0 %	
		What percentage of demolition waste will be recycled?	99.68 %	
b.	Does your site have an		1	
		Have you submitted an assessment of the site contamination?	2	
		Are plans in place to remediate the contamination?  Have you submitted a remediation plan?	1	
		Are plans in place to include composting on site?	1	
c.	Will a waste manageme	ent plan and facilities be in place in line with Policy LP24	Yes	
	ducing levels of water v			
a.	will the following meas	sures of water conservation be incorporated into the development? (Please tick all that apply): Fitting of water efficient taps, shower heads etc	1	
		Use of water efficient A or B rated appliances	1	
		Rainwater harvesting for internal use Greywater systems	4 4	
		Fit a water meter	1	
Dia	alice and address of the	This is a Carling to the	Subtotal 6	
riease	give any additional relev	ant comments to the Improving Resource Efficiency Section below		

7	ACCESSIBILITY				
7.1		able and lone	-term use of structures		
a.		residential, v	ill it meet the requirements of the nationally described sp		1
		If the standar	ds are not met, in the space below, please provide detail	Is of the functionality of the internal space and layout	
AND					
b.	If the development is		ill it meet Building Regulation Requirement M4 (2) 'acce		2
		IT this is not r	net, in the space below, please provide details of any acc	cessibility measures included in the development.	
		For major ro	sidential developments, are 10% or more of the units in the	ha davalanment to Building Regulation Requirement	
			Ichair user dwellings'?	ne development to building negulation nequirement	'
OR		(0) 11.100	ional door droningo .		
C.	If the development is	non-resident	ial, does it comply with requirements included in Richmo	nd's Local Plan LP1, LP28.B, LP30 & LP45	2
		Diameter :	de deseile of the accessibility.	and Disastes will be included to the developer of	
		Please provi	de details of the accessibility measures specified in the L	Policy LP 1 - Detailed review carried out of the s	site including
				pedestrian and cycle networks carried out by the	
				allow integration of accessibility and inclusive de	
				scheme. Consultation with stakeholders has also	included for
					2:11:11
Plaaca	aivo any additional rolov	ant commonts	to the Design Standards and Accessibility Section below	v.	Subtotal
			section of the design and access statement for further de		
			, and the second		
LBRUT S	ustainable Construction	Checklist- S	coring Matrix for New Construction	all and domestic refurb)	TOTAL 6
LBRUT S	ustainable Construction Score	Checklist- S	coring Matrix for <i>New Construction</i>  Significance	ial and domestic refurb)	TOTAL 6
LBRUT S	Score 84 or more	Rating A+	Significance Project strives to achieve highest standard in energy e	le development	TOTAL 6
LBRUT S	Score 84 or more 75-83	Rating A+ A	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustaina	e development in Richmond	TOTAL 6
LBRUT S	Score 84 or more 75-83 56-74	Rating A+ A B	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustaina Helps to significantly improve the Borough's stock of s	e development in Richmond pments	TOTAL 6
LBRUT Si	Score 84 or more 75-83 56-74 40-55	Rating  A+  A  B  C	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustains Helps to significantly improve the Borough's stock of s Minimal effort to increase sustainability beyond genere	e development in Richmond pments	TOTAL 6
LBRUT Si	Score 84 or more 75-83 56-74	Rating A+ A B	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustaina Helps to significantly improve the Borough's stock of s	e development in Richmond pments	TOTAL 6
	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 energy e Makes a major contribution towards achieving sustains Helps to significantly improve the Borough's stock of s Minimal effort to increase sustainability beyond genere	e development in Richmond pments	TOTAL 6
	Score   84 or more   75-83   56-74   40-55   39 or less   ustainable Construction	Rating   A+   A   B   C   FA/L   Checklist- S	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustaina. Helps to significantly improve the Borough's stock of s Minimal effort to increase sustainability beyond genera Does not comply with SPD Policy  coring Matrix for New Construction	e development in Richmond pments	TOTAL 6
	Score   84 or more   75-83   56-74   40-55   39 or less	Rating   A+	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustaine Helps to significantly improve the Borough's stock of s Minimal effort to increase sustainability beyond genera Does not comply with SPD Policy  corring Matrix for New Construction  Significance	e development in Richmond ipments  Residential new-build	TOTAL 6
	Score   84 or more   75-83   56-74   40-55   39 or less     Ustainable Construction   Score   85 or more	Rating  A+  A  B  C  FAIL  Checklist- S  Rating  A++	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustaina Helps to significantly improve the Borough's stock of s Minimal effort to increase sustainability beyond genera Does not comply with SPD Policy  corring Matrix for New Construction  Significance Project strives to achieve highest standard in energy e	e development in Richmond ipments  Residential new-build  fficient sustainable development	TOTAL 6
	Score   84 or more   75-83   56-74   40-55   39 or less     ustainable Construction   Score   85 or more   68-84	Rating	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustains Helps to significantly improve the Borough's stock of s Minimal effort to increase sustainability beyond genera Does not comply with SPD Policy  coring Matrix for New Construction Significance Project strives to achieve highest standard in energy e Project strives to achieve higher standard in energy e	e development in Richmond pments  Residential new-build  fficient sustainable development ficient sustainable development	TOTAL 6
	Score   84 or more   75-83   56-74   40-55   39 or less   ustainable Construction   Score   85 or more   68-84   59-67	Rating	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustaina. Helps to significantly improve the Borough's stock of s Minimal effort to increase sustainability beyond genera Does not comply with SPD Policy  coring Matrix for New Construction  Significance Project strives to achieve highest standard in energy ef Makes a major contribution towards achieving sustaina	e development in Richmond pments  Residential new-build  ifficient sustainable development ficient sustainable development able development in Richmond	TOTAL 6
	Score   84 or more   75-83   56-74   40-55   39 or less   stainable Construction   Score   85 or more   68-84   59-67   39-58	Rating	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustaina Helps to significantly improve the Borough's stock of s Minimal effort to increase sustainability beyond genera Does not comply with SPD Policy  coring Matrix for New Construction  Significance Project strives to achieve highest standard in energy e Project strives to achieve higher standard in energy ef Makes a major contribution towards achieving sustains Helps to significantly improve the Borough's stock of s	e development in Richmond ipments  Residential new-build  ifficient sustainable development ficient sustainable development able development in Richmond ustainable developments	TOTAL 6
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	Score   84 or more   75-83   56-74   40-55   39 or less   stainable Construction   Score   85 or more   68-84   59-67   39-58	Rating	Significance Project strives to achieve highest standard in energy e Makes a major contribution towards achieving sustaina Helps to significantly improve the Borough's stock of s Minimal effort to increase sustainability beyond genera Does not comply with SPD Policy  coring Matrix for New Construction  Significance Project strives to achieve highest standard in energy e Project strives to achieve higher standard in energy ef Makes a major contribution towards achieving sustains Helps to significantly improve the Borough's stock of s	e development in Richmond ipments  Residential new-build  ifficient sustainable development ficient sustainable development able development in Richmond ustainable developments	TOTAL 6
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