



RUGBY FOOTBALL UNION

Sustainable Construction Checklist

Twickenham Stadium – East Stand Extension

Aug 2016



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, 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 - East Stand Extension	Application No. (if known):	
Address (include. postcode) Completed by:	Twickenham Stadium - East Stand, Rugby Road, Twickenham. TW2 7BA Mainer Associates		
For Non-Residential Size of development (m2)	11088	For Residential Number of dwellings	
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND NON-RESIDENTIAL)		
	sment been submitted that demonstrates the expected energy and carbon dioxide em asures, including the feasibility of CHP/CCHP and community heating systems? If yes		Yes
	Iduction oxide emissions reduction against a Building Regulations Part L (2013) baseline ondon Plan Policy 5.2 (2015) require a 35% reduction in CO ₂ emissions beyond Buil.	lding Regulations 2013.	20.73
Percentage of total si	te CO2 emissions saved through renewable energy installation?		15.7
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)		
	Please check the Guidance Section of this SPD for the po	licy requirements	
Environmental Rating of deve Non-Residential new-build (10)			
BREEAM Level Extensions and conversions fo	Very Good	Have you attached a pre-assessment to support this?	\checkmark
BREEAM Domestic R		Have you attached a pre-assessment to support this?	
Extensions and conversions fo BREEAM Level	r non-residential buildings Very Good	Have you attached a pre-assessment to support this?	V
Score awarded for En BREEAM:	vironmental Rating: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		Subtotal 8
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIAL)		
Water Usage			

Usage Internal water usage 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	
Subtotal	0

2.1 N	leed 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	🗆 <u>6</u>
	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	
	Mechanical ventilation with heat recovery	I 1
	Active cooling systems, i.e. Air Conditioning Unit	
	· · · · · · · · · · · · · · · · · · ·	
.2 He	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	
•	now have the heating and cooling systems, with preference to the heating system herarchy, been selected (beined in London Plan policy 3.6)? Thick all heating and cooling systems that will be used in the development:	
	Connection to existing heating or cooling networks powered by renewable energy	□ 6
	Connection to existing heating or cooling networks powered by entervale electricity	
	Site wide CHP network powered by renewable energy	
	Site wide CHP network powered by gas	√ 3
	Communal heating and cooling powered by renewable energy	2
	Communal heating and cooling powered by rate or electricity	
	Individual heating and cooling	
	ollution: Air, Noise and Light	_
а.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	✓ 2
.	Does the development plan include a biomass boiler?	Π-
	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.	
;.	Please tick only one option below	
	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	□ 3 ✓ 1
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	⊻ 1
Ι.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	√ 3
e.	Have you attached a Lighting Pollution Report?	- โ
		Subtotal
leas	e give any additional relevant comments to the Energy Use and Pollution Section below	
nsula	tion has been improved over and above the requirement of Part L.	
	film on glazing. nal lighting to be compliant with BREEAM Pol 04, Reduction of Obtrusive Light.	
xieff		

 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?

Please	explain:	
b.	Does your development include charging point(s) for electric cars?	√ 2
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
d.	For smaller developments ONLY: Have you provided a Transport Statement?	5
e.	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?	2
f.	Will the development create or improve links with local and wider transport networks? If yes, please provide details.	□ <u>2</u>
Please	give any additional relevant comments to the Transport Section below	Subtotal
The RF	Ü will be providing 4 No. car charging points.	

	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)	<u> </u>
		If so, please state how much in sqm?	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)	12
		ent plan to add (and not remove) any tree(s) on site? (Indicate if yes)	
	Does your developme	in plan to add (and not remove) any tree(s) of site: (indicate if yes)	-
	Please indicate which	n features and/or habitats that your development will incorporate to improve on site biodiversity:	
		Pond, reedbed or extensive native planting 6 Area provided:	sam
		Pond, reedbed or extensive native planting 6 Area provided: An extensive green roof 5 Area provided:	sam
		An intensive green roof 4 Area provided:	sqm
		Garden space 4 Area provided:	sam
		Additional native and/or wildlife friendly planting to peripheral areas 3 Area provided:	sqm
		Additional planting to peripheral areas 2 Area provided:	sqm
		A living wall 2 Area provided:	sam
		Bat boxes 0.5	
		Bird boxes 0.5 🗸	
		Other 0.5	
			Subtotal
ase	give any additional rele	evant comments to the Biodiversity Section below	
		as part of the Ecology Assessment. The RFU have confiemd these will be installed as part of the development.	
	FLOODING AND DR		
igat		ng and other impacts of climate change in the borough	_
	Is your site located in	a high flood risk zone (Zone 3)? (Indicate if yes)	2
		Have you submitted a Flood Risk Assessment? (Indicate if yes)	✓
	Which of the following	g 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	3
		Attenuate rainwater in ponds or open water features	4
		Store rainwater in tanks for gradual release to a watercourse	3
		Discharge rainwater directly to watercourse	
		Discharge rainwater to surface water drain	<u>√</u> 1
		Discharge rainwater to surface water drain Discharge rainwater to combined sewer	✓ 1 □ 0
		Discharge rainwater to combined sewer	□ <i>o</i>
	Please give the chan	Discharge rainwater to combined sewer ge in area of permeable surfacing which will result from your development proposal:	0 sqm
	Please give the chan Please provide detail	Discharge rainwater to combined sewer	0 ogative number
	Please provide detail	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 ne	0 sqm
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	ACCESSIBILITY			
1		able and long-	term use of structures	
	If the development is		I 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	
١D				
	If the development is	residential, wil	l it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2
		If this is not m	net, in the space below, please provide details of any accessibility measures included in the development.	
		For major res	idential developments, are 10% or more of the units in the development to Building Regulation Requirement	□ 1
			chair user dwellings'?	
र				_
	If the development is		II, does it comply with requirements included in Richmond's Design for Maximum Access SPG	√ 2
		Please provid development	le details of the accessibility measures specified in the Maximum Access SPG that will be included in the	
		development	See design and access statement	
ease :	give any additional relev	vant comments	to the Design Standards and Accessibility Section below	Subtotal 2
	stainable Construction	Checklist- Sc	oring Matrix for New Construction (Non-Residential and domestic refurb)	Subtotal 2
	stainable Construction	Checklist- Sca Rating	oring Matrix for New Construction (Non-Residential and domestic refurb)	
	stainable Construction Score 80 or more	Checklist- Sco Rating A+	oring Matrix for New Construction (Non-Residential and domestic refurb) Significance Project strives to achieve highest standard in energy efficient sustainable development	
	stainable Construction Score 80 or more 71-79	Checklist- Sca Rating	oring Matrix for New Construction (Non-Residential and domestic refurb) Significance Project strives to achieve highest standard in energy efficient sustainable development Makes a major contribution towards achieving sustainable development in Richmond	
	stainable Construction Score 80 or more	Checklist- Sco Rating A+ A	oring Matrix for New Construction (Non-Residential and domestic refurb) Significance Project strives to achieve highest standard in energy efficient sustainable development	
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