



RUGBY FOOTBALL UNION

Sustainable Construction Checklist

Twickenham Stadium – East Stand Extension

July 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 COMPLIAN	NCE (RESIDENTIAL AND NON-RESIDENTIAL)		
	ment been submitted that demonstrates the expected energy and carbon dioxide easures, including the feasibility of CHP/CCHP and community heating systems? If		Yes
	duction xide 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 E	Building Regulations 2013.	20.73
ū	te CO2 emissions saved through renewable energy installation?		15.7
1A MINIMUM POLICY CO	OMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)		
	Please check the Guidance Section of this SPD for the	oolicy requirements	
Environmental Rating of deve Non-Residential new-build (100 BREEAM Level Extensions and conversions for	Osqm or more) Very Good	Have you attached a pre-assessment to support this?	V
BREEAM Domestic Re	efurbishment Please Select	Have you attached a pre-assessment to support this?	
Extensions and conversions for BREEAM Level	r non-residential buildings Very Good	Have you attached a pre-assessment to support this?	V
Score awarded for Env BREEAM:	vironmental Rating: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		Subtotal 8
1B MINIMUM POLICY CO	OMPLIANCE (RESIDENTIAL)		
	mited to 105 litres person per day. (Excluding an allowance 5 litres per person per ator for new dwellings have been submitted.	day for external water consumption). Calculations using the	√ 1

	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	□ <u>6</u>
	Reduce heat entering a building through proving/improving insulation and living roofs and walls	√ 2 √ 3
	Reduce heat entering a building through shading Exposed thermal mass and high ceilings	✓ 3 □ 4
		□ 3
	Passive ventilation Mechanical ventilation with heat recovery	□ 3 □ 1
	wechanical ventilation with near recovery Active cooling systems, i.e. Air Conditioning Unit	$\boxed{2}_{0}$
	Active cooling systems, i.e. Air Coronitoring Onic	
2 He	at 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	□ 6
	Connection to existing heating or cooling networks powered by gas or electricity	□ 5
	Site wide CHP network powered by renewable energy	<u> </u>
	Site wide CHP network powered by gas	√ 3
	Communal heating and cooling powered by renewable energy	<u> </u>
	Communal heating and cooling powered by gas or electricity	□ 1
	Individual heating and cooling	□ 0
	Ilution: Air, Noise and Light	
١.	Does the development plan to implement reduction strategies for dust emissions from construction sites?	✓ 2
o.	Does the development plan include a biomass boiler?	П-
,.		□-
	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 boiler is or a qualifying size, you may need to completed the information request form found on the Richmond website.	□-
	on the monitorial weasite.	<u> </u>
.	Please tick only one option below	
٠.	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
		_
d.	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	√ 3
€.	Have you attached a Lighting Pollution Report?	✓ -
€.	Have you attached a Lighting Pollution Report?	
		☑ - Subtotal
	Have you attached a Lighting Pollution Report? e give any additional relevant comments to the Energy Use and Pollution Section below ion has been improved over and above the requirement of Part L.	
Please nsulat	e give any additional relevant comments to the Energy Use and Pollution Section below ion has been improved over and above the requirement of Part L. ilm on glazing.	
Please nsulat	e give any additional relevant comments to the Energy Use and Pollution Section below tion has been improved over and above the requirement of Part L.	
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4.1 M a.	BIODIVERSITY	
a.	linimising the threat to biodiversity from new buildings, lighting, hard surfacing and people	_
	Does your development 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
		_
b.	Does your development 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 development plan to add (and not remove) any tree(s) on site? (Indicate if yes)	-
d.	Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity:	
	Pond, reedbed or extensive native planting 6 Area provided:	sqm
	An extensive green roof 5 Area provided:	sqm
	An intensive green roof 4 Area provided:	sqm
	Garden space Additional native and/or wildlife friendly planting to peripheral areas 4	sqm
	Additional native and/or wildlife friendly planting to peripheral areas 3 Area provided:	sam
	Additional planting to peripheral areas 2 Area provided:	sqm
	A living wall 2 Area provided:	sam
	Bat boxes 0.5 🗸	
	Bird boxes 0.5 V	
	Other 0.5	
		Subtotal 1
Diese	se give any additional relevant comments to the Biodiversity Section below	Subtotal
	se give any additional relevant commens to time biodiversity Section below and bat boxes proposed as part of the Ecology Assessment. The RFU have confiemd these will be installed as part of the development.	
biid a	and bat boxes proposed as part of the Ecology Assessment. The KPO have confirmit these will be installed as part of the development.	
	TI AANNA IIIN AANNA III AA	
5	FLOODING AND DRAINAGE	
	ating the risks of flooding and other impacts of climate change in the borough	П.
a.	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)	✓ -
b.	Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)	_
	Store rainwater for later use	<u> 5</u>
	Use of infiltration techniques such as porous surfacing materials to allow drainage on-site	□ 3 □ 4
	Attenuate rainwater in ponds or open water features	
	Store rainwater in tanks for gradual release to a watercourse	□ 3
	Discharge rainwater directly to watercourse	□ 2
	Discharge rainwater to surface water drain	√ 1
	Discharge rainwater to combined sewer	□ <i>o</i>
	· · · · · · · · · · · · · · · · · · ·	
c.	Please give the change in area of permeable surfacing which will result from your development proposal:	sam
	Please provide details of the permeable surfacing below please represent a loss in permeable area as a negative nur	mber
		Subtotal 1
Pleas	se give any additional relevant comments to the Flooding and Drainage Section below	
1 1000	o greathy additional relevant comments to the recoding and Dramage Coulon Delew	
6	IMPROVING RESOURCE EFFICIENCY	
6 1 R	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
a.	will defind the required on your site prior to constitution: [r office will only be awarded if 10% or greater or defind those waste is reused/recycled	. ,
	If so, what percentage of demolition waste will be reused in the new development?	9/2
	ii so, what percentage of demonstron waste will be redsed in the new development:	/6
	What paraeters of demolities wests will be regular?	0/
	What percentage of demolition waste will be recycled?	%
		%
b.	Does your site have any contaminated land?	%
b.	Does your site have any contaminated land? Have you submitted an assessment of the site contamination?	<u> </u>
b.	Does your site have any contaminated land?	□ 2 □ 2
b.	Does your site have any contaminated land? Have you submitted an assessment of the site contamination?	□ 2 □ 2 □ 1
b.	Does your site have any contaminated land? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan?	□ 2 □ 2
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	Does your site have any contaminated land? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan?	□ 2 □ 2 □ 1
	Does your site have any contaminated land? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan? Are plans in place to include composting on site?	□ 2 □ 2 □ 1
6.2 R	Does your site have any contaminated land? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan? Are plans in place to include composting on site? **Reducing levels of water waste** Will the following measures of water conservation be incorporated into the development? (Please tick all that apply):	□ 2 □ 2 □ 1
6.2 R	Does your site have any contaminated land? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan? Are plans in place to include composting on site?	☐ 2 ☐ 2 ☐ 1 ☐ 1
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7. ACCESSIBILITY 7.1 Ensure flexible adaptable and long-term use of structures a. If the development is residential, will it meet the requirements of the nationally described space standard for internal space and layout? If the standards are not met, in the space below, please provide details of the functionality of the internal space and layout	
a. If the development is residential, will it meet the requirements of the nationally described space standard for internal space and layout?	
If the standards are not met, in the space below, please provide details of the functionality of the internal space and layout	□ 1
AND	
b. If the development is residential, will it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	□ 2
If this is not met, in the space below, please provide details of any accessibility measures included in the development.	
For major residential developments, are 10% or more of the units in the development to Building Regulation Requirement	□ 1
M4 (3) 'wheelchair user dwellings'? OR	
c. If the development is non-residential, does it comply with requirements included in Richmond's Design for Maximum Access SPG	✓ 2
Please provide details of the accessibility measures specified in the Maximum Access SPG that will be included in the	
development	
See design and access statement	
	Subtotal
Please give any additional relevant comments to the Design Standards and Accessibility Section below	
RUT Sustainable Construction Checklist- Scoring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL 38
Score Rating Significance	TOTAL 38
Score Rating Significance 80 or more A+ Project strives to achieve highest standard in energy efficient sustainable development	TOTAL 38
Score Rating Significance 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	TOTAL 38
Score Rating Significance 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 B Helps to significantly improve the Borough's stock of sustainable developments	TOTAL 34
Score Rating Significance 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 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance	TOTAL 34
Score Rating Significance 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 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance	TOTAL 34
Score Rating Significance 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 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance 35 or less FAIL Does not comply with SPD Policy	TOTAL 31
Score Rating Significance 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 B Helps to significantly improve the Borough's stock of sustainable developments 36-50 C Minimal effort to increase sustainability beyond general compliance 35 or less FAIL Does not comply with SPD Policy	TOTAL 34
Score Rating Significance	TOTAL 38
Score Rating Significance	TOTAL 34
Score Rating Significance	TOTAL 3
Score Rating Significance	TOTAL 34
Score	TOTAL 34
Score Rating Significance	TOTAL 38
Score Rating Significance	TOTAL 3
Score Rating Significance	TOTAL 34
Score Rating Significance	TOTAL 34
Score Rating Significance	TOTAL 3