

LBRUT SUSTAINABLE CONSTRUCTION CHECKLIST

TO BE FILLED IN FOR ALL RESIDENTIAL DEVELOPMENT PROVIDING ONE OR MORE NEW RESIDENTIAL UNITS, AND ALL OTHER FORMS OF DEVELOPMENT PROVIDING 100sqm OR MORE OF NON-RESIDENTIAL DEVELOPMENT

ALL OTHER CLASSES OF DEVELOPMENT ARE ENCOURAGED TO COMPLY WITH THIS CHECKLIST

This document forms part of the Sustainable Construction Checklist SPD, and should be read in conjunction with the associated Guidance Document. 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. Scores will be awarded for different achievements on site, and a final score attributed to the site as a whole.

Property Name (if relevant): Development Type	Lensbury Family Restaurant Pavilion Restaurant	Application No. (if known):
Address (include. postcode)	The Lensbury, Broom Road, Twickenham TW11 9NU	
Completed by:	R J Biggins	

MINIMUM POLICY COMPLIANCE			
Please	check the Sustainable Construction webpage for th	e policy requirements	
Environmental Rating of development:			
Residential new-build	Rating achieved		
Code for Sustainable Homes Level	Please Select	A pre-assessment is required to support this. Has this been provided?	
Non-Residential new-build (100sqm or more)			
BREEAM Level	BREEAM Very Good	A pre-assessment is required to support this. Has this been provided?	V
Extensions and conversions (residential dwellings)			
EcoHomes Level	Please Select	A pre-assessment is required to support this. Has this been provided?	
f other environmental rating sought please state:			
Score awarded for Environmental Rating (this will only	be awarded once a pre-assessment is submitted to veri	fy the level achieved):	Score
CSH:	Level 3 = 4, Level 4 = 8, Level 5 = 16, Level 6 = 20		0
BREEAM:	Good = 0, Very Good = 0, Excellent = 8, Outstanding	= 16	
EcoHomes:	Good = 0, Very Good = 0, Excellent = 8		
Accredited Assessors (Please see Guidance docume	nt for more details on accredited assessors)		
Have you used a licensed Code for Sustainable Homes	s, EcoHomes and BREEAM Accredited Assessor respe	ctively?	7
*	· · · · · · · · · · · · · · · · · · ·	*	
	ance document for more details on how to prepare an El		
	ne expected energy and carbon dioxide emissions savin neating systems. Has this been submitted? If yes, pleas	g from energy efficiency and renewable energy measures,	2

Carbon Dioxide emissions reduction (Please see Justification & Guidance document for more details on how to calculate these figures as part of the Energy Assessment) Percentage of total site CO₂ emissions saved through renewable energy installation?
 Percentage of regulated CO₂ emissions saved below Building Regulations target level through all low carbon measures? 19 19



1. ENERGY USE AND POLLUTION	
1.1 Need 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 	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 🗆
1.2 Heat Generation How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy 4A.6)? Tick the	booting and
cooling system that will be used in the development:	5
Connect to existing CCHP/CHP networks	6 🗆
 Site-wide CCHP/CHP powered by renewable energy 	5 🗆
Gas-fired CCHP/CHP	4 🗆
 Communal heating/cooling powered by renewable energy 	3 🗖
Communal heating/cooling powered by gas	2 🗆
 Individual heating/cooling powered by renewable energy 	1
 Individual heating/cooling powered by gas or electricity 	0 🗹
1.3 Pollution: Air, Noise and Light	
a. Does the development plan to implement reduction strategies for dust emissions from construction sites?	2 🗹
b. Does the development plan to include a biomass boiler?	- 🗆
 If yes, please refer to the biomass guidelines for the Borough of Richmond, and 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 websit	
c. Please tick only one option below	
 c. 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 are to not create any new noise and emantice the existing soundscape of the site; Has the development taken care to not create any new noise generation/transmission issues in its intended 	1 1
	1 🖸
d. 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?	- 🗆
	Subtotal 22.0
Please give any additional relevant comments to the Energy Use and Pollution Section below	
Low level, low energy lighting appropriate to pedestrian safety and way-finding to be provided to the decking areas.	



2.	2. TRANSPORT				
2.1	2.1 Provision for the safe efficient and sustainable movement of people and goods				
а.		es, such as elect	tric cars?	2 🗆	
b.	 For major developments ONLY: Has a Transport Assessment been produced for your develo If you have provided a Transport Assessment as part of your pla Checklist. 				
c.	E. For smaller developments ONLY: Have you provided a Transport Statement?			5 🗆	
d.	 If so, for how many bicycles? Is this shown on the site plans?			-	
e.	e. Will the development create or improve links with local and wider transport networks? If yes, pl	ease provide det	ails below.	2 🗆	
				Subtotal 0.0	
	Please give any additional relevant comments to the Transport Section below Existing facilities are unaffected by proposed development - due to nature of use patrons are unlike				
		-			
3	BIODIVERSITY				
	BIODIVERSITY 3.1 Minimising the threat to biodiversity from new buildings, lighting, hard surfacing and peop	le			
	3.1 Minimising the threat to biodiversity from new buildings, lighting, hard surfacing and peop a. Does your development involve the loss of an ecological feature or habitat, including a loss of		green space compared to the	pre-development site? -2 🗆	
3.1	3.1 Minimising the threat to biodiversity from new buildings, lighting, hard surfacing and peop		green space compared to the	pre-development site? -2 □	
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Subtotal 10.0

Please give any additional relevant comments, including specific reasons why living roofs cannot be incorporated in proposals with roof plate areas of 100sqm or more should this be the case, to the Biodiversity Section below Ponds already exists elsewhere on the site. As the development is under an extensive tree canopy a living roof is not considered practicable - although this will in itself provide a degree of attenuation. New garden space is being created on the site of demolished buildings and hedging provided within the terraced areas. Bat and bird boxes are being provided on a site-wide basis at the Lensbury at strategic locations.



1 .	Is your site located in an area at risk of flooding? (Tick if yes)		- 🗸
	If yes, please tick only ONE option below:		
	 New development in a high flood risk zone (3a) 		-2 🗆
	 New development in a medium flood risk zone (2) 		-1 🗆
	 Redevelopment of an existing building or conversion 		0 🗹
	Is your development within 20 metres of a watercourse or a flood defence? (Tick if yes)		- 🗆
	Have you submitted a Flood Risk Assessment? (Tick if yes)		- 🗆
) .	Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that app	ly)	
	Store rainwater for later use		5 🗹
	 Use of infiltration techniques such as porous surfacing materials to allow dra 	inage 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 		2 🗆
	 Discharge rainwater to surface water drain 		1 🗸
	 Discharge rainwater to combined sewer 		0 🗆
:.	Please give the change in area of permeable surfacing which will result from your development proposal:	0	sqm
	Please provide details of the permeable surfacing below	please represent a loss in permeable area as a negative nu	
		Subto	otal 9.0
Plea	ase give any additional relevant comments to the Flooding and Drainage Section below		



5 IMPROVING RESOURCE EFFICIENCY	
5.1 Reduce 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?	0
 b. Does your site have any contaminated land or has the site previously been used for potentially contaminating uses? Have you submitted an assessment of the site contamination? Are plans in place to remediate the contamination? Have you submitted a remediation plan? 	1 □ 2 □ 2 □ 1 □
c. Are plans in place to include composting on site?	1 🔽
 5.2 Reducing levels of water waste a. Will the following measures of water conservation be incorporated into the development? (Please tick all that apply): Fitting of water efficient taps, shower heads, dual flush toilets etc Use of water efficient A or B rated appliances Rainwater harvesting for internal use Greywater systems Fit a water meter 	1 0 1 2 4 0 4 2 1 0
 b. What is the water consumption target of the development (in litres per person per day?) The recommended target for conversions or other small scale residential properties is 105 litres/person/day. Will this be met? (Indicate if yes) 	tba 1
c. If applicable, have you submitted evidence that capacity exists in the public sewerage and water supply network? Please give any additional relevant comments, including reasons why the water consumption target has not been met should this be the ca	Subtotal 13.0
to the Improving Resource Efficiency Section below	

Water saving measures will be compatible with restaurant hygiene/Environmental Health requirements. Use of potable supplies to lavatory areas will be reduced by substitutution of harvested water.



6	DESIGN STANDARDS AND ACCESSIBILITY	
6.1	Ensure flexible adaptable and long-term use of structures	
а.	If the development is residential, will it meet the requirements set out in the Residential Design Standards SPD for internal space and layout?	1 🗆
	 If the standards are not met, in the space below, please provide details of the functionality of the internal space and layout. 	
	Not applicable	
AN		
b.	If the development is residential, will it meet the criteria included in the Lifetime Home Standards?	2 🗆
	• If not all Lifetime Homes criteria are to be met, in the space below, please provide details of any accessibility measures included in the	
	development.	
	Not applicable	
с.	 Are 10% or more of the units in the development wheelchair accessible? 	1 🗆
OR		
d.	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 include it is the superconstruction of the accessibility measures are specified in the Maximum Access SPG that will be 	
	included in the development	
	Level access to internal and external spaces. Wheelchair and ambulant disabled lavatory facilities provided within building.	
	Subt	otal 2
Pla	use give any additional relevant comments to the Design Standards and Accessibility Section below	
	take give any additional relevant comments to the besign take and accession become below whether any additional relevant comments of the besign take and accession become the second below and accession become the second become	
	and is also memory to provide access spectrating to names with young emotion and anow intervention prants and buggles including facilities for character with spectral ds, accessible infant lavatory facilities and unises baby-charaging facilities.	
	I PDIT Sustainable Construction Checklist. Searing Matrix TOTAL	56

core for new construction	Score for extensions or conversions	Rating	Significance
80 or more	70 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development
71-79	61-69	А	Makes a major contribution towards achieving sustainable development in Richmond
51-70	41-60	В	Helps to significantly improve the Borough's stock of sustainable developments
36-50	26-40	С	Minimal effort to increase sustainability beyond general compliance
35 or less	25 or less	FAIL	Does not comply with planning policies on sustainabililty and climate change

Authorisation: I herewith declare that I have filled in this form to the best of my knowledge

R J Biggins - Gibberd Ltd Signature

Date 30.07.2013