

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	85 Station Road	Refurbishment / split dwelling into two flats	Application No. (if known):	
Address (include. postcode)	85 Station Road, Tw	vickenham, TW12 2BJ		
Completed by:		Ross Standaloft - Green T	iger Sustainability	
, ,			y ,	
MINIMUM POLICY COMPLIANCE				
MINIMOM POLICY COMPLIANCE				
Environmental Bating of devalorm		ease check the Sustainable Construction webpage for the	policy requirements	
Environmental Rating of developmental Residential new-build	ent.	5		
Code for Sustainable Homes Le	evel	Rating achieved Please Select	A pre-assessment is required to support this. Has this been provided?	
Non-Residential new-build (100sqm o BREEAM Level	or more)	Please Select	A pre-assessment is required to support this. Has this been provided?	
			provided :	
Extensions and conversions (resident EcoHomes Level	tial dwellings)	BREEAM Domestic Refurbishment Excellent	A pre-assessment is required to support this. Has this been provided?	
If other environmental rating sought p	lease state:			
Score awarded for Environmental Rat	ting (this will only be a	warded once a pre-assessment is submitted to verify the level	achieved):	Score
	CSH:	Level 3 = 4, Level 4 = 8, Level 5 = 16, Level 6 = 20		8
	BREEAM: EcoHomes:	Good = 0, Very Good = 0, Excellent = 8, Outstanding = 16 Good = 0, Very Good = 0, Excellent = 8		<u> </u>
Accredited Assessors (Please see 0	Guidance document fo	or more details on accredited assessors)		
Have you used a licensed Code for S	ustainable Homes, Ec	oHomes and BREEAM Accredited Assessor respectively?		\boxtimes
Energy Assessment (Please see Just	stification & Guidance	document for more details on how to prepare an Energy Asse.	ssment)	
An energy assessment is required that	at demonstrates the ex	spected energy and carbon dioxide emissions saving from energy and carbon dioxide emissions saving from energy and the saving from th		
Carbon Dioxide emissions reduction	on (Please see Justific	eation & Guidance document for more details on how to calcula	te these figures as part of the Energy Assessment)	
 Percentage of total site CO₂ em 	nissions saved through	renewable energy installation?	0	
 Percentage of regulated CO₂ el 	missions saved below	Building Regulations target level through all low carbon measurements	ures? 40	
1. ENERGY USE AND POLLUTION				
1.1 Need for Cooling				Score
a. How does the development inco	prporate cooling measu	ures? Tick all that apply:		
	 Energy efficient des 	sign incorporating specific heat demand to less than or equal to	15 kWh/sqm	6 🗌
		Reduce heat entering a building through providing/improving	g insulation and living roofs and walls	² 🖂
		Reduce heat entering a building through shading		2
		Exposed thermal mass and high ceilings Passive ventilation		* [A]
	 Mechanical ventilati 			ĭĦ
		ems, i.e. Air Conditioning Unit		∂ □
 Heat Generation How have the heating and cooling that will be used in the develope 		erence to the heating system hierarchy, been selected (defined	in London Plan policy 4A.6)? Tick the heating and cooling system	
Do dood iii die developii		Connect to existing CCHP/CHP networks		6 🗆



	Site-wide CCHP/CHP powered by renewable energy Gas-fired CCHP/CHP Communal heating/cooling powered by renewable energy Communal heating/cooling powered by gas Individual heating/cooling powered by renewable energy Individual heating/cooling powered by renewable energy		5 4
1.3 a.	Pollution: Air, Noise and Light 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 <u>biomass guidelines</u> for the Borough of Richmond, and see guidar information. If the proposed boiler is of a qualifying size, you may need to complete the info on the Richmond websit		
C.	Please tick only one option below • Has the development taken measures to reduce existing noise and enhance the existing so • Has the development taken care to not create any new noise generation/transmission issue		3 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?		- 🗆
Dia	ase give any additional relevant comments to the Energy Use and Pollution Section below		Subtotal 21.0
	ase give any additional relevant comments to the Energy Ose and Politicion Section below estle is not suitable for CHP.		
	TRANSPORT		
2.1 a.	Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies, such as electric cars?		2 🗆
b.	For major developments ONLY: Has a Transport Assessment been produced for your development based on TfL's Best Pro	actice Guidance?	
	If you have provided a Transport Assessment as part of your planning application, please ti	ick here and move to Section 3 of this Checkli	ist. 5 🗌
c.	For smaller developments ONLY: Have you provided a Transport Statement?		5 🔲
d.	Does your development provide cycle storage? • If so, for how many bicycles? • Is this shown on the site plans?		<u>2</u> ⊠
e.	Will the development create or improve links with local and wider transport networks? If yes, please provide details below.		² □
Dlo	ase give any additional relevant comments to the Transport Section below		Subtotal 2.0
A m	ninimum of 4 spaces will be supplied in garden and will be accessible directly from the street i.e. not through the house.		
3	BIODIVERSITY Minimising the threat to biodiversity from new buildings, lighting, hard surfacing and people		
a.	Does your development involve the loss of an ecological feature or habitat, including a loss of garden or other green space or • If so, please state how much in sqm?	ompared to the pre-development site? (Tick if	-2 sqm
b.	Does your development involve the removal of any tree(s)? (Tick if yes) • If so, has a tree report been provided in support of your application? (Tick if yes)		- ⊠ - ⊠
c.	Does your development plan to add any tree(s) on site? (Tick 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 An extensive green roof An intensive green roof A brown roof Garden space Additional native and/or wildlife friendly planting to peripheral areas Additional planting to peripheral areas	Area provided:	sqm sqm sqm sqm sqm sqm sqm sqm



A living wall Bat boxes Bird boxes Other	2	
Please give any additional relevant comments, including specific reasons why living roofs cannol should this be the case, to the Biodiversity Section below It won't let the box for garden space to be ticked - so I have ticked extensive green roof to give the	t be incorporated in proposals with roof plate areas of 100sqm or more	
4 FLOODING AND DRAINAGE		
4.1 Reducing and mitigating the risks of flooding and other impacts of climate change in ta. Is your site located in an area at risk of flooding? (Tick if yes)	the borough -	
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) Redevelopment of an existing building or conversion 	-1 <u>-</u> 0	
redevelopment of an existing building of conversion	$^{\prime\prime} oxtimes$	
Is your development within 20 metres of a watercourse or a flood defence? (Tick if yes)	· n	
Have you submitted a Flood Risk Assessment? (Tick if yes)		
riave you submitted a riood Nisk Assessment: (Tick ii yes)	·	
b. Which of the following measures of the drainage hierarchy are incorporated onto your site?		
Store rainwater for later use	aterials to allow drainage on-site 5 💢 4 📗	
 Use of infiltration techniques such as porous surfacing m Attenuate rainwater in ponds or open water features 	naterials to allow drainage on-site	
Store rainwater in tanks for gradual release to a watercore	urse 3	
 Discharge rainwater directly to watercourse 	2 🔲	
Discharge rainwater to surface water drain Discharge rainwater to semblined environ	1	
 Discharge rainwater to combined sewer 	0	
c. Please give the change in area of permeable surfacing which will result from your development.	ment proposal: 0 sqm	
Please provide details of the permeable surfacing below	please represent a loss in permeable area as a negative number	
	0.14-4-1	
Please give any additional relevant comments to the Flooding and Drainage Section below	Subtotal 8.0	
Please give any additional relevant comments to the Flooding and Drainage Section below There is no additional hardstanding land. Permeable paving will be used where possible to enco		
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nsure flexible adaptable and I	CESSIBILITY			
the development is residentia	al, will it meet the requireme	nts set out in the Residential Design t, in the space below, please provide	Standards SPD for internal space and layout? edetails of the functionality of the internal space and layout.	1 🗵
f the development is residentia	al, will it meet the criteria inc	luded in the Lifetime Home Standar	ds?	2 🗆
•	If not all Lifetime Homes cr	teria are to be met, in the space bel	ow, please provide details of any accessibility measures included in the de	velopment.
	Are 10% or more of the uni	ts in the development wheelchair ac	cessible?	1 ⊠
			s Design for Maximum Access SPG? n the Maximum Access SPG that will be included in the	2 🗌
give any additional relevant con	nments to the Design Stand	ards and Accessibility Section below	1	Subtotal 2
give any additional relevant con	mments to the Design Stand	ards and Accessibility Section below		Subtotal 2
	nments to the Design Stand			Subtotal 2 TOTAL 56
			Significance	
LBRUT Sustaina	able Construction Checklis Score for extensions or	it- Scoring Matrix		
LBRUT Sustaina	Score for extensions or conversions	it- Scoring Matrix Rating	Significance Project strives to achieve highest standard in energy efficient sustainable development Makes a major contribution towards achieving sustainable development in Richmond	
LBRUT Sustaina Score for new construction 80 or more	Score for extensions or conversions 70 or more	it- Scoring Matrix Rating A+	Significance 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	
LBRUT Sustains Score for new construction 80 or more 71-79	Score for extensions or conversions 70 or more 61-69	it- Scoring Matrix Rating A+ A	Significance 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	
LBRUT Sustaina Score for new construction 80 or more 71-79 51-70	Score for extensions or conversions 70 or more 61-69 41-60	tt-Scoring Matrix Rating A+ A B	Significance 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	

to the Improving Resource Efficiency Section below
The water consumption targets have been met and meet BREEAM minimum requirements for Excellent also.