



Greggs Bakery / Twickenham Sustainability Checklist

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):	Greggs Bakery Site	Application No. (if known): London Square	
Address (include. postcode) Completed by:	Gould Road, Twickenham, TW2 6RT Desco (Design & Consultancy) Ltd		
For Non-Residential Size of development (m2)	175	For Residential Number of dwellings	
1 MINIMUM COMPLIAN	ICE (RESIDENTIAL AND NON-RESIDENTIAL)		
	ment been submitted that demonstrates the expected energy and carbon dioxide assures, 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 B	uilding Regulations 2013.	37%
Percentage of total sit	e CO2 emissions saved through renewable energy installation?		6%
1A MINIMUM POLICY CO	DMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT)		
	Please check the Guidance Section of this SPD for the	policy requirements	
Environmental Rating of deve			
Non-Residential new-build (100 BREEAM Level Extensions and conversions for	Excellent	Have you attached a pre-assessment to support this?	Ø
BREEAM Domestic Re	efurbishment Please Select	Have you attached a pre-assessment to support this?	
Extensions and conversions for BREEAM Level	Please Select	Have you attached a pre-assessment to support this?	
Score awarded for Env	vironmental Rating: Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16		Subtotal 8
1B MINIMUM POLICY CO	DMPLIANCE (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

	ERGY USE AND POLLUTION 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/sgm	□ 6
	Energy emicient design incorporating specific neat demand to less train or equal to 1s kvn/risgm Reduce heat entering a building through providing/improving insulation and living roofs and walls	□ 6 ☑ 2
	Reduce heat entering a building through shading	3
	Exposed thermal mass and high ceilings	□ 4
	Passive ventilation	□ 3 ☑ 1
	Mechanical ventilation with heat recovery Active cooling systems, i.e. Air Conditioning Unit	<u> </u>
	Figure cooling systems, i.e. fill conditioning only	
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 neating or cooling networks powered by reasons energy Connection to existing heating or cooling networks powered by gas or electricity	
	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 Communal heating and cooling powered by gas or electricity	✓ 2☐ 1
	Individual heating and cooling powered by gas of electricity	Π̈́o
3 Pa	ullution: Air, Noise and Light	
	Does the development plan to implement reduction strategies for dust emissions from construction sites?	✓ 2
	Does the development plan 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 completed the information request form found on the Richmond website.	□-
	on the Richmond website.	ш-
	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?	⊻ 7
	Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	
	Have you attached a Lighting Pollution Report?	☑-
		Subtotal
ease	give any additional relevant comments to the Energy Use and Pollution Section below	Subtotal
or lig	hting pollution report, please refer to the Desco External Lighting Report.	
or lig	hting pollution report, please refer to the Desco External Lighting Report.	
or lig	hting pollution report, please refer to the Desco External Lighting Report.	
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TRA	hting pollution report, please refer to the Desco External Lighting Report. ANSPORT ovision for the safe efficient and sustainable movement of people and goods	
TRA	ANSPORT ovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies?	
TRA	hting pollution report, please refer to the Desco External Lighting Report. ANSPORT ovision for the safe efficient and sustainable movement of people and goods	
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TRA 1 Pro	ANSPORT Ovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? explain: Does your development include charging point(s) for electric cars?	☑ 2
TRA	hting pollution report, please refer to the Desco External Lighting Report. ANSPORT ovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? e explain:	✓ 2 ✓ 5
TRA 1 Pro	hiting pollution report, please refer to the Desco External Lighting Report. ANSPORT Ovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Does your development include charging point(s) for electric cars? For major developments ONLY: Has a Transport Assessment been produced for your development based on TfL's Best Practice Guidance?	_
TRA 1 Pro	INSPORT Ovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? e explain: Does your development include charging point(s) for electric cars? 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. For smaller developments ONLY: Have you provided a Transport Statement?	✓ 5
TRA 1 Pro	ANSPORT Ovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? e explain: Does your development include charging point(s) for electric cars? 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. For smaller developments ONLY: Have you provided a Transport Statement? 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?	
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TRA 1 Pre	ANSPORT ovision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? e explain: Does your development include charging point(s) for electric cars? 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. For smaller developments ONLY: Have you provided a Transport Statement? 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?	✓ 5

	BIODIVERSITY				
4.1 N	Minimising the threat to b	iodiversity from new buildings, lighting, hard surfacing and peo	ple		
a.	Does vour developme	nt involve the loss of an ecological feature or habitat, including a loss	of garden or other green s	pace? (Indicate if ves)	□-2
		If so, please state how much in sqm?	9	,	sam
		ii so, picase state now macir iii sqiii:			oqiii
	D	- t ! t th			
b.	Does your developme	nt 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 vour developme	nt 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 imp	prove on site hindiversity.		
۵.	r rougo maroato winon	Pond, reedbed or extensive native planting	6 🗆	Area provided:	sam
			· H		
		An extensive green roof	• ≌	Area provided:	sqm
		An intensive green roof	4 🔟	Area provided:	sqm
		Garden space	5	Area provided:	sqm
		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 🔽 2 🗆	Area provided:	sam
		Bat boxes	2 □ 0.5 ☑	rtica provided.	oqiii
			0.5		
		Bird boxes	0.5 ☑ 0.5 □		
		Other	0.5		
					Subtotal 15
Pleas	se give any additional rele	vant comments to the Biodiversity Section below			
		ng planted as part of the proposals			
/ \ iai	ge number of trees are be	ing planted as part of the proposals			
5	FLOODING AND DRA				
5.1 Mitig	gating the risks of floodir	g and other impacts of climate change in the borough			
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)			
		Trave you submitted a riood risk Assessment: (indicate if yes)			₾ -
b.	Which of the following	measures of the drainage hierarchy are incorporated onto your site?	(tick all that apply)		<u> </u>
		Store rainwater for later use			✓ 5
		Use of infiltration techniques such as porous surfacing materials to	allow drainage on-site		✓ 3
		Attenuate rainwater in ponds or open water features			☑ 3
		Store rainwater in tanks for gradual release to a watercourse			□ 3
		Discharge rainwater directly to watercourse			☑ 2
		Discharge rainwater to surface water drain			
					∃,
		Discharge rainwater to combined sewer			□ 0
C.		e in area of permeable surfacing which will result from your developm			2300 sqm
c.		e in area of permeable surfacing which will result from your developn of the permeable surfacing below		sent a loss in permeable area a	s a negative number
C.				sent a loss in permeable area a	
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		table and lone	n-term use of structures	
	Ensure flexible adap			
	If the development is		vill it meet the requirements of the nationally described space standard for internal space and layout?	☑ 1
		If the standar	rds are not met, in the space below, please provide details of the functionality of the internal space and layout	
D				
	If the development is	residential, w	vill it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	☑ 2
		If this is not r	net, in the space below, please provide details of any accessibility measures included in the development.	
		For major res	sidential developments, are 10% or more of the units in the development to Building Regulation Requirement	☑ 1
		M4 (3) 'whee	elchair user dwellings'?	
₹ .				
	If the development is		ial, does it comply with requirements included in Richmond's Design for Maximum Access SPG	□ 2
			de details of the accessibility measures specified in the Maximum Access SPG that will be included in the	
		development		
				Subtotal
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