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 for 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):	Education building		Application No. (if known):		
Address (include. postcode)	32 CROSS STREET BAR	RNES, LONDON, SW13 0QQ			
Completed by:	DZ ONOOO ONNEEN, DAN				
	Claudia Cioli (Energy asse	essor)			
For Non-Residential			For Residential		
Size of development (m2)	193		Number of dwellings		
			··		
1 MINIMUM COMPLIA	NCE (RESIDENTIAL AND N	ON-RESIDENTIAL)			
Energy Assessment					
	sment been submitted that de	emonstrates the expected energy and carbon d	ioxide emissions saving from energy efficiency and	TRUE	
		lity of CHP/CCHP and community heating system			
Carbon Dioxide emissions r What is the on site or		ction against a Building Regulations Part L (201	3) baseline	32.3 %	
		5 require a 35% onsite reduction in CO ₂ emissi		02.0	
What is the percenta	ge reduction from efficiency n	neasures alone		19.5 %	
		6 require a 10% onsite reduction in CO2 emissi			
beyond Building Reg	ulations 2013 from efficiency	r measures for residential and 15% for non-resid	dential.		
Percentage of totals	ite CO2 emissions saved thro	ough renewable energy installation?		12.8 %	
r oroontago or totar o		agn tenenable energy meanatern		12.0	
	aining carbon to be offset			1.737 Tonne	
Policy LP 22 B. and I	Draft London Plan Policy 9.2.	4 require Major developments to achieve Zero C	Carbon after offsetting.		
Are remaining emissions going to be offset through offset fund payment in accordance with current guidelines issued for the cost per tonne of CO2?					
· · · · · · · · · · · · · · · · · · ·					
What is the total prec				£	
The London Plan set	s this as £95/tonne per year o	over 30 years, this should be updated based on	As Build calculations.		
1A MINIMUM POLICY C	OMPLIANCE (NON-RESIDE	ENTIAL AND DOMESTIC REFURBISHMENT)			
	Pleas	se check the Guidance Section of this SPD fo	or the policy requirements		
Environmental Rating of de	velopment:				
Non-Residential new-build (10					
BREEAM Level		Very Good	Have you attached a pre-assessment to support this?		TRUE
Excellent required under Polic					
Extensions and conversions for BREEAM Domestic F		Please Select	Have you attached a pre-assessment to support this?		Please Select:
Excellent required under Police			have you attached a pro-assessment to support this:		r lease beleet.
Extensions and conversions for					
BREEAM Level		Please Select	Have you attached a pre-assessment to support this?		Please Select:
Excellent required under Poli	CY LP 22				
Score awarded for E				Subtotal 4	
BREEAM:	Good = 0, Very Good = 4,	, Excellent = 8, Outstanding = 16			
1B MINIMUM POLICY C	OMPLIANCE (RESIDENTIA				
		L)		Score	
Water Usage					
			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 Please 1101/p/d Required for new dwellings under Policy LP22 A 2 1051/p/d required under Draft London Plan Policy SI:					Please Select:
r torpra nequirea tor	new awenings under Folloy I	- 22 A 2 Toolpro required under Drait London		Subtotal 0	

	RGY USE AND POLLUTION ed for Cooling	Score	
2.1 Nie 3.	eu for cooling How does the development incorporate cooling measures? Tick all that apply:	30010	
1.		6	FALS
	Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sqm		
	Reduce heat entering a building through providing/improving insulation and living roofs and walls	2	TRUE
	Reduce heat entering a building through shading	3	TRUE
	Exposed thermal mass and high ceilings	4	FALSE
	Passive ventilation	3	FALSE
	Mechanical ventilation with heat recovery	1	TRUE
	Active cooling systems, i.e. Air Conditioning Unit	0	FALSE
	See Draft London Plan SI4	-	
	tt Generation		
) .	How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy SI3) Tick all heating and cooling systems that will be used in the development:	S	
		Score	541.01
	Connection to existing heating or cooling networks powered by renewable energy	6	FALS
	Connection to existing heating or cooling networks powered by gas or electricity	5	FALS
	Site wide CHP network powered by renewable energy	4	FALS
	Site wide CHP network powered by gas	3	FALS
	Communal heating and cooling powered by renewable energy	2	FALS
	Communal heating and cooling powered by gas or electricity	1	FALS
	Individual heating and cooling	0	TRUE
	See Draft London Plan SI3		-
.3 Pol	lution: Air, Noise and Light		
	Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	TRUE
		-	
).	Does the development plan to include a biomass boiler?		FALS
			I ALS
	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 complete the information request form found		
	on the Richmond website.		
	Has an air quality impact assessment been provided		FALS
	If yes, has 'Emissions Neutral' been achieved	1	Please Sel
	If yes, have occupants of new development been protected from existing pollution	1	Please Sel
	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present?	-1	Please Sele
	see Policy LP 10		
	Please tick only one option below		
•		3	FALS
	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site?	J	
	Has the development taken care to not create any new poice concretion/transmission issues in its intended energies?	4	TDUE
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation?	1	TRUE
	Has the development taken care to not create any new noise generation/transmission issues in its intended operation? see Policy LP 10	1	TRUE
	see Policy LP 10		
ə.	see Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	1 3	
	see Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Policy LP 10		TRUE
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	see Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Policy LP 10	3	NO
	see Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Policy LP 10 Have you attached a Lighting Pollution Report?	3	TRUE
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4		BIODIVERSITY		
		imising the threat to biodiversity from new buildings, lighting, hard surfacing and people		FA: 67
а		Does your development involve the loss of an ecological feature or habitat, including a loss of garden or other green space? (Indicate if yes) If so, please state how much in sqm?	sqm	FALSE
		in so, prease state now induit in sqin?	ыцпі	
b		Does your development involve the removal of any tree(s)? (Indicate if yes)		TRUE
		If so, has a tree report been provided in support of your application? (Indicate if yes)		TRUE
с		Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)		FALSE
				TALOL
d		Please indicate which features and/or habitats that your development will incorporate to improve on site biodiversity:		
			sqm	FALSE
			sqm sqm	FALSE FALSE
			sqm	FALSE
		Additional native and/or wildlife friendly planting to peripheral areas 3 Area provided:	sqm	FALSE
			sqm	FALSE
		A living wall 2 Area provided: Bat boxes 0.5	sqm	TRUE FALSE
		Bird boxes 0.5		FALSE
		Swift boxes 0.5		FALSE
		Other 0.5		FALSE
е		Does your development use at least 70% of available roof plate as green/brown roof 1		FALSE
		Policy LP 17 requires 70%	-	
F	lease	give any additional relevant comments to the Biodiversity Section below	2	
Ē	.5430 (
5		FLOODING AND DRAINAGE		
		ng the risks of flooding and other impacts of climate change in the borough		
а		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)		FALSE TRUE
		nave you submitted a flood Kisk Assessment (indicate in yes)		INUE
b		Which of the following measures of the drainage hierarchy are incorporated onto your site? (tick all that apply)		
		Store rainwater for later use 5		FALSE
		Use of infiltration techniques such as porous surfacing materials to allow drainage on-site 3 Attenuate rainwater in ponds or open water features 4		FALSE FALSE
		Attenuate rainwater in ponds or open water features 4 Store rainwater in tanks for gradual release to a watercourse 3		TRUE
		Discharge rainwater directly to watercourse 2		FALSE
		Discharge rainwater to surface water drain 1		TRUE
		Discharge rainwater to combined sewer 0 Have you submitted a Drainage Statement (Indicate if yes)		FALSE TRUE
		nave you submitted a Drainage Statement (indicate in yes) See Policy LP 21 and Draft London Plan SL 13		INUE
с			sqm	
		Please provide details of the permeable surfacing below please represent a loss in permeable area as a negative number		
		sive any additional relevant comments to the Electrics and Designed Satisfy Relevant	4	
ŕ	lease g	give any additional relevant comments to the Flooding and Drainage Section below		
		The development outflow is restricted to the feasible minimum of 1/s. due to site constraints infiltration and open attenuation is not viable		
6	1	IMPROVING RESOURCE EFFICIENCY		
6	.1 Red	uce waste generated and amount disposed of by landfill though increasing level of re-use and recycling		
а		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		TRUE
		If so, what percentage of demolition waste will be reused in the new development?	%	
		What percentage of demolition waste will be recycled?	%	
b		Does your site have any contaminated land? 1		TRUE
5	•	Have you submitted an assessment of the site contamination? 2		TRUE
		Are plans in place to remediate the contamination? 2		FALSE
		Have you submitted a remediation plan? 1		FALSE
		Are plans in place to include compositing on site? 1		FALSE
с		Will a waste management plan and facilities be in place in line with Policy LP24 Possibly, this will be at later stage with		
		ucing levels of water waste		
а		Will the following measures of water conservation be incorporated into the development? (Please tick all that apply): Fitting of water efficient taps, shower heads etc 1		TRUE
		Use of water efficient A or B rated appliances 1		TRUE
		Rainwater harvesting for internal use 4		FALSE
		Greywater systems 4		FALSE
		Fit a water meter 1		TRUE
		Subtotal	6	
F	lease o	give any additional relevant comments to the Improving Resource Efficiency Section below		
Ĺ				
		With regards to point b. Any plans to remediate the contamination nor to include composting on site are required.		

7	ACCESSIBILITY						
7.1	7.1 Ensure flexible adaptable and long-term use of structures						
a.						Please Select:	
		If the standar	is are not met, in the space below, please provide details of the functionality of the internal space and layout				
AND							
b.	If the development is	rocidontial w	II it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?		2	Please Select:	
D.	in the development is		et, in the space below, please provide details of any accessibility measures included in the development.		2	Flease Select.	
			dential developments, are 10% or more of the units in the development to Building Regulation Requirement chair user dwellings'?		1	Please Select:	
OR c.	If the development is	s non-residenti	al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45		2	FALSE	
		Please provid	e details of the accessibility measures specified in the Local Plan that will be included in the development				
					Subtotal 0		
Please	give any additional rele	vant comments	to the Design Standards and Accessibility Section below				
			The project complies with all the Local Plan requirements listed above except LP 45.				
LBRUT Su	stainable Construction	n Checklist- So	oring Matrix for New Construction (Non-Residential and domestic refurb)		TOTAL 35		
	Score	Rating	Significance				
	84 or more	A+	Project strives to achieve highest standard in energy efficient sustainable development				
	75-83	А	Makes a major contribution towards achieving sustainable development in Richmond				
	56-74	В	Helps to significantly improve the Borough's stock of sustainable developments				
	40-55	С	Minimal effort to increase sustainability beyond general compliance				
	39 or less	FAIL	Does not comply with SPD Policy				
LBRUT Su	stainable Constructio	n Checklist- So	oring Matrix for New Construction Residential new-build				
	Score	Rating	Significance				
	85 or more	A++	Project strives to achieve highest standard in energy efficient sustainable development				
	68-84	A+	Project strives to achieve higher standard in energy efficient sustainable development				
	59-67	Α	Makes a major contribution towards achieving sustainable development in Richmond				
	39-58	В	Helps to significantly improve the Borough's stock of sustainable developments				
	24-38	С	Minimal effort to increase sustainability beyond general compliance				
	23 or less	FAIL	Does not comply with SPD Policy				
		•		•			
A							
Authorisat I herew		illed in this form	to the best of my knowledge Signature	Date 27/11	/2020		
				-			