



Sustainability Checklist Mizen Properties Limited

Unit B1 Railshead Road

Final

Alicia Ramos

MSc

September 2020

DOCUMENT CONTROL RECORD

REPORT STATUS: FINAL

Version	Date	Reason for issue	Author	Checked by	Approved for Issue by Project Manager
v.1	28.8.2020	Planning requirement	AR	ZW	ZW pp ZL
v.2	02.09.2020	Final	AR	ZW	ZL

ABOUT HODKINSON CONSULTANCY

Our team of technical specialists offer advanced levels of expertise and experience to our clients. We have a wide experience of the construction and development industry and tailor teams to suit each individual project.

We are able to advise at all stages of projects from planning applications to handover.

Our emphasis is to provide innovative and cost-effective solutions that respond to increasing demands for quality and construction efficiency.

This report has been prepared by Hodkinson Consultancy using all reasonable skill, care and diligence and using evidence supplied by the design team, client and where relevant through desktop research.

Hodkinson Consultancy can accept no responsibility for misinformation or inaccurate information supplied by any third party as part of this assessment.

This report may not be copied or reproduced in whole or in part for any purpose, without the agreed permission of Hodkinson Consultancy of Rickmansworth, Hertfordshire.



Executive Summary

The purpose of this Sustainability Checklist is to demonstrate that the proposed development at Unit B1 Railshead Road by Mizen Properties Limited in the London Borough of Richmond is considered sustainable, as measured against relevant local, regional and national planning policies.

The proposed development will comprise the conversion existing office space of the first floor into six dwellings.

Through the incorporation of sustainable design and construction methods, energy and water saving measures, sustainable transport methods, waste management and measures to enhance the ecological value of the site, a good quality and sustainable development is proposed.

CONTENTS

	Executive Summary	2
1.	INTRODUCTION	4
2.	DEVELOPMENT OVERVIEW	4
3.	SUSTAINABILITY CONSIDERATIONS	5
4.	SUMMARY	7
AP	PENDICES	8

Appendix A Sustainability Checklist

Appendix B Water Calculator

Appendix C BREEAM Domestic Refurbishment 2014 Pre-assessment targeting 'Excellent' rating

Appendix D Energy Performance Summary



1. INTRODUCTION

- 1.1 This document has been prepared by Hodkinson Consultancy, a specialist energy and environmental consultancy for planning and development, appointed by Mizen Properties Limited.
- 1.2 This Statement sets out the sustainable measures as part of the sustainability checklist for the proposed development at Unit B1 Railshead Road in the London Borough of Richmond.
- 1.3 This report does not duplicate the work of the technical reports prepared in support of the application but presents the findings in the overall context of sustainability.

2. DEVELOPMENT OVERVIEW

2.1 The proposed development site at Unit B1 Railshead Road in the London Borough of Richmond is located at 1 Railshead Road, TW7 7EP, as shown in Figure 1 below.

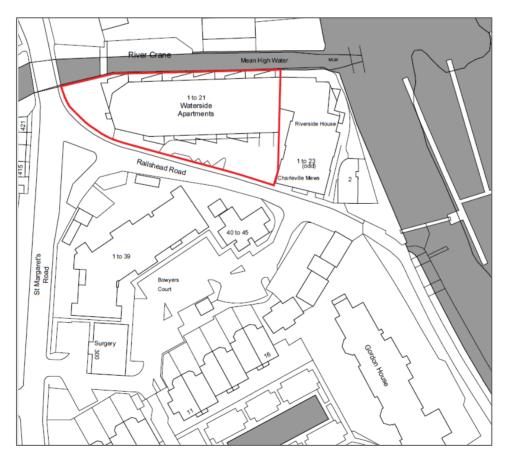


Figure 1: Site Location (FORMstudio Architects, 2020)

2.2 The site is currently occupied by a 4-storey building with office space on the ground and first floors and 21 dwellings.

Proposed Development

2.3 The proposed development is described as follows:

"Conversion to Use Class C3 of part only of B1 commercial space (with direct access at ground floor level) approved under LPA Ref: 13/3388 and providing at first floor level 4 x 2 Bed and 2 x 1 Bed dwellings"

2.4 Figure 2 illustrates the proposed site layout.



Figure 2: Proposed Ground Floor Plan (FORMstudio Architects, 2020)

3. SUSTAINABILITY CONSIDERATIONS

Sustainability Checklist

- 3.1 As required by Richmond Council, a Sustainability Checklist has been completed to compliance with Richmond Borough's minimum policy requirements with regards to environmental ratings under the applicable BREEAM scheme, energy and carbon dioxide emissions savings, water use, energy use and pollution, transport, biodiversity, flooding and drainage, and resource efficiency. Overall, the checklist demonstrates that measures will be implemented towards minimising environmental impact and improving quality of life of future occupiers.
- **3.2** The completed checklist can be found in **Appendix A**.



Internal Water Efficiency

- 3.3 The dwellings will target a minimum water efficiency standard of 105 litres/person/day (excluding an allowance of 5 litres/person/day) in accordance with the Intend to Publish London Plan Policy SI5.
- 3.4 The proposed strategy to minimise internal water consumption is to install fittings with a low flow rate/flush volume and install flow restrictors to reduce the flow rates further where necessary. The following are an indication of the flow rates and flush volumes that will be achieved.
 - > WC: 6/4 litres dual flush
 - > Taps: 4 litres per minute
 - > Bath: 160 litre capacity
 - > Shower: 8 litres per minute
 - > Kitchen sink taps: 5 litres per minute
 - > Washer-dryer: 8.17 litres/kg
 - > Dishwasher: 1.25 litres/place setting
- This strategy will achieve an internal water consumption of 104.9 litres/per/day and a total water consumption of 109.9 litres/person/day. The full strategy is detailed in **Appendix B.**

BREEAM Domestic Refurbishment

- 3.6 The proposed development will be assessed under the BREEAM Domestic Refurbishment 2014 scheme with a target of achieving the required 'Excellent' rating.
- 3.7 A full BREEAM Pre-Assessment is presented in **Appendix C** and provides an illustrative route to achieving the 'Excellent' rating. The predicted score at this stage is 70.58%, where a 'Very Good' score is ≥55% and an 'Excellent' score is ≥70%. This represents a high level of sustainable design and construction.
- 3.8 The principles and requirements of many of the individual credits feature throughout this Sustainability Statement, where appropriate, however the mandatory credits for the required 'Excellent' rating are as follows:
 - > **Ene 02 Energy efficiency rating post-refurbishment** A minimum of 2.5 credits is to be achieved.

- > **Wat 01 Internal water use** A minimum of 2 credits is to be achieved based on the water consumption per person per day or the equivalent terminal fitting standards.
- > **Hea 05 Ventilation** A minimum of 1 credit is to be achieved, requiring a minimum level of background, extract, and purge ventilation to be provided in applicable areas.
- > **Hea 06 Safety** Compliant fire and carbon monoxide (CO) detection and alarm systems are installed.
- > **Pol 03 Flooding** Avoidance of flooding is achieved. Where this is not possible, where avoidance is not possible, a full flood resilience/resistance strategy must be implemented for the dwellings in accordance with recommendations of a suitably qualified building professional.
- > Mat 01 Environmental impact of materials Credits are achieved according to the impact of new materials according to their Green Guide rating and their impact on improving the thermal performance of the dwelling.
- **3.9** Whilst this has been determined as the most appropriate route to certification, the actual route to certification may vary as the detailed design progresses.

Energy

- 3.10 Representative dwellings from the proposed development were assessed using Standard Assessment Procedure (SAP 2012) methodology to estimate the energy performance of the proposed dwellings. The results were used use to complete the relevant sections of the sustainability checklist.
- **3.11** A technical note explaining the results referenced against the relevant policy requirements can be found in **Appendix D.**

4. SUMMARY

- **4.1** The purpose of this report is to demonstrate that the proposed development at Unit B1 Railshead Road by Mizen Properties Limited in the London Borough of Richmond is considered sustainable.
- 4.2 Through the incorporation of sustainable design and construction methods, energy and water saving measures, sustainable transport methods, waste management and measures to enhance the ecological value of the site, a good-quality and sustainable development is proposed.
- 4.3 The completed sustainability checklist demonstrates that the proposed development achieves a score of 59.5, which equates to a B rating. This confirms that the proposed development helps to significantly improve the borough's stock of sustainable developments.



APPENDICES

Appendix A

Sustainability Checklist

Appendix B

Water Calculator

Appendix C

BREEAM Domestic Refurbishment 2014 Preassessment targeting 'Excellent' rating

Appendix D

Energy Performance Summary

Appendix A

Sustainability Checklist

LBRUT Sustainable Construction Checklist - June 2020

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 (in relevant).	Offic DT Natisticau Noau	Application No. (ii known).		
Address (include accepted)	No.1 Railshead Road, TW7 7EP			
Address (include, postcode)	No.1 Railsnead Road, TW7 7EP			
Completed by:	Allala Barras of Hadistras Occupitation			
	Alicia Ramos of Hodkinson Consultancy			
For Non-Books attack		For Booklood of		
For Non-Residential		For Residential		
Size of development (m2)		Number of dwellings 6		
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	AND CREATE AND MAN PROPERTY.			
1 MINIMUM COMPLIA	ANCE (RESIDENTIAL AND NON-RESIDENTIAL)			
Energy Assessment				
	ssment been submitted that demonstrates the expected energy and carbon		TRUE	
renewable energy me	easures, including the feasibility of CHP/CCHP and community heating sys	stems? If yes, please select TRUE.		
			-	
Carbon Dioxide emissions r	reduction			
What is the on site or	arbon dioxide emissions reduction against a Building Regulations Part L (2	2013) baseline	15 %	
Policy LP 22 B. and L	Draft London Plan Policy 9.2.5 require a 35% onsite reduction in CO 2 emi	ssions beyond Building Regulations 2013.	<u> </u>	
•	, ,	, , ,		
What is the percents	age reduction from efficiency measures alone		0 %	
· ·			0 70	
	Draft London Plan Policy 9.2.6 require a 10% onsite reduction in CO2 emis			
beyona Bullaing Reg	gulations 2013 from efficiency measures for residential and 15% for non-res	sidential.		
Percentage of total s	site CO2 emissions saved through renewable energy installation?		21 %	
	naining carbon to be offset		30.115 Tonne	
Policy LP 22 B. and L	Draft London Plan Policy 9.2.4 require Major developments to achieve Zero	Carbon after offsetting.		
Are remaining emissi	ions going to be offset through offset fund payment in accordance with curi	rent guidelines issued for the cost per tonne of CO2?	FALSE	
What is the total pred			£	
The London Plan set	ts this as £95/tonne per year over 30 years, this should be updated based	on As Build calculations.		
		_		
1A MINIMUM POLICY O	COMPLIANCE (NON-RESIDENTIAL AND DOMESTIC REFURBISHMENT	Г)		
	Please check the Guidance Section of this SPD	for the policy requirements		
Forder was a state Bother of de-				
Environmental Rating of de			-	
Non-Residential new-build (10				=41.0=
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?		FALSE
Excellent required under Polic				
Extensions and conversions for				-
BREEAM Domestic F		Have you attached a pre-assessment to support this?		TRUE
Excellent required under Polic				
Extensions and conversions for				
BREEAM Level	Please Select	Have you attached a pre-assessment to support this?		FALSE
Excellent required under Police	cy LP 22			
Score awarded for Er			Subtotal 8	
BREEAM:	Good = 0, Very Good = 4, Excellent = 8, Outstanding = 16			
1B MINIMUM POLICY (COMPLIANCE (RESIDENTIAL)			
			Score	
Water Usage				
	after gray/rainwater systems limited to 105 litres person per day. (Excluding			
	lations using the water efficiency calculator for new dwellings have been s		1	TRUE
110Vp/d Required for	r new dwellings under Policy LP22 A 2 105l/p/d required under Draft Londo	in Plan Policy SI5		
, , , , , ,	i new aweilings under Policy LP22 A 2 105/p/a required under Drait Londo			
	r new dwellings under Folicy LF22 A 2 105i/p/d required under Draft Londo	in rian riolloy did	Subtotal 1	
	r new aweilings under Policy LP22 A 2 105/p/a required under Draft Condo	That I only 010	Subtotal 1	

How does the development incorporate cooling measure? Tick all that apply. Energy efficient design incorporating specific heat demand to less than or equal to 15 kWh/sigm. Reduce heat erieting a building through providing/improving insulation and living roods and walls Florable place of the efficient of the place	How does the development tonogroute cooling measures? Tick all that apply: Energy efficient despire to a building thin processing specific heat desirating a building thin processing framework to the process of the p		ed for Cooling	Score	
Reduce heat entering a building through providing improving insulation and living roofs and walls Required the entering a building through shading and proving historians of the province of t	Reduce heat enterings a building through historide providing improvide and living roofs and wals Popular and Secretary Secreta		How does the development incorporate cooling measures? Tick all that apply:		
Reduce heat entering a building frozgish standing Exposed thermal mass and high cellings Plansive verification Mechanication of Plans 184 Mechanication of Plans 185 Mechanication of Plans 185 Controlled in London Plans 185 Communal heating and cooling systems, i.e. Air Conditioning Unit See Draft London Plans 184 Communal heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy \$13) Tick all heating and cooling systems that will be used in the development. Connection to existing heating or cooling inventors proved by gas or electricity Communal heating and cooling powered by gas as clearloss? Communal heating and cooling powered by gas as clearloss? Site wide CPP network powered by gas as clearloss? See Draft London Plans 38 Pollution: Air, Notice and Lindit Link Mechanication of the Standard Cooling powered by gas or electricity Site wide CPP network powered by gas or electricity Communal heating and cooling powered by gas or electricity See Draft London Plans 38 Pollution: Air, Notice and Link Link Mechanication of the Standard Cooling opwered by gas or electricity Link Mechanication of the Standard Cooling opwered by gas or electricity Link Mechanication of the Standard Cooling opwered by gas or electricity Link Mechanication of the Standard Cooling opwered by gas or electricity Link Mechanication of the Standard Cooling opwered by gas or electricity Link Link Mechanication of the Standard Cooling Cooling Link Mechanication request term found information. If the proposed boling is of a qualifying size, you may need to complete the information request term found information. If the proposed boling is of a qualifying size, you may need to complete the information request term found information. If the proposed boling is of a qualifying size, you may need to complete the information request term found information. If the proposed boli	Reduce heat entering a building invoice shading Exposed thermal mass in high ceilings Praise's verifiation Repaired Control of the State of Conditioning Unit See Draft London Plan SI Connection to esisting pleasing or coding repletions provided by representative the verifiation of coding systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy SI3) Tick all heating and coding systems that will be used in the development. Connection to esisting heating or coding relevoirs powered by renewable energy Commentation to esisting heating or coding relevoirs powered by gas or electricity Silts wide CFP relevoirs powered by gas or electricity Silts wide CFP relevoirs powered by gas or electricity Silts wide CFP relevoirs powered by gas or electricity See Draft London Plan SI3 Polithican, Air, Notice and Lindon Polithican, Air, Notice and Lindon If yes, power price to be biomass as pulserines for the biomass and coding powered by gas or electricity If yes, power price for the biomass and pulsering are configurated price or price of the proposed boiler or all aquality price or pric				
Exposed thermal mass and high cellings Mechanical verilation with heat recovery Active cooling systems, it.e. Air Conditioning Unit See Draft London Plans 34 Heat Connection How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy \$13) Tick all heating and cooling systems that will be used in the development. Cooling systems that will be used in the development of the development principle that is include a bit binaries of the development principle to implement reduction strategies for dust emissions from construction sites? Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to implement reduction strategies for dust emissions from construction sites? Fall if yes, please refer to the bit binaries application from construction sites? Has an air quality impact assessment been provided. If yes, have refer to the binaries application from the Binaries of the Binaries of the site of	Expose the head mass and high ceilings Mechanical ventilation with beat recovery See Draft London Plan SIV **Head Generation** **Linear Generation** **Linear Generation** **Linear Generation** **Cornection to existing heating or cooling relevories powered by reservable energy Cornection to existing heating or cooling relevories powered by generative process of years or electricity Solve Draft London Plan SI Communication** **Cornection to existing heating or cooling relevories powered by generative process of years or electricity See Draft London Plan SI Communication** Communication** **Cornection to existing heating or cooling relevories powered by generative process of years or electricity See Draft London Plan SI Communication** Commu			2	
Pease we reliablon with hear tocovery Abdree cooling systems, i.e. Air Conditioning Unit See Draft London Plan 504 **Heat Generation How have the healting and cooling systems, with preference to the healting system hierarchy, been selected (defined in London Plan policy \$13) Tick all heating and cooling systems that will be used in the development. **Heat Generation How have the healting and cooling posteres, to cooling reference power of by reservable energy All the used of the release planting or cooling reference power of by gas or electricity Site wide CPP network powered by year and cooling powered by renewable energy All the used CPP network powered by year and cooling powered by renewable energy All the used CPP network powered by year or electricity Site wide CPP network powered by year or electricity All the power of year or electricity All the development plan is a fortube at binaries and cooling powered by gas or electricity All the development plant is include a binaries boiler? Does the development plan is include a binaries boiler? All the service power of year or electricity All the development plan is include a binaries boiler or a qualifying planting and cooling power of year or electricity All the power of year or electricity Al	Passake vorintation Mechanical volustion with these recovery Mechanical volustion with the recovery See Draft London Plan SV **Next Generation Heat Generation Heat Generation Heat department of the beating and cooling systems, i.e. Ner Conditioning Unit How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy \$13) Tick all heating and cooling systems but with a beat of the process of the selection o				
Mechanical verilation with heat recovery Active cooling systems, i.e. Ar Conditioning Unit See Draft London Plan SI Heat Connection How have the healting and cooling systems, with preference to the healting system hierarchy, been selected (defined in London Plan policy St3). Tick all healting and cooling systems that will be used in the development. Connection to existing healting or cooling networks powered by gas are electricity Connection to existing healting or cooling networks powered by gas or electricity Site wide OFF retwork powered by gas are learning to gas or electricity Site wide OFF retwork powered by gas are learning to gas or electricity Site wide OFF retwork powered by gas are learning to gas or electricity Communal healting and cooling powered by gas or electricity See Draft London Plan SI	Mechanical verification with heat recovery Active coding systems, i.e. Art Conditioning Unit FAS See Draft London Plan double plan is the development. How have the heating and coding systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy \$13). Tick all heating and coding systems that will be used in the development. Commission to existing heating or coding networks powered by resemble energy. Commission to existing heating or coding networks powered by gas or electricity. Sile wide CPP network powered by gas and coding powered by gas or electricity. Sile wide CPP network powered by gas and coding powered by gas or electricity. See Draft London Plan SI? Pollution: Art. Notice and Londy Individual heating and cooling powered by gas or electricity. See Draft London Plan SI? Does the development plan to include a biomass boller? If yes, please refer to he biomass guidelines for the Borough of Richmond, please see guidance for supplementary. If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary. If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary. If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary. If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary. If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary. If yes, pas remissions Noterial been achieved. If yes, have companyed of the advertagement been provided in Policy LP 10 present? If yes, the companyed of the advertagement been provided by the supplementary. If yes have pound the supplement all yes and policy and				
Active conting systems, i.e. Air Conditioning Unit See Draft London Plan SI Visial Connectation How have the healing and cooling systems, with preference to the healing system hierarchy, been selected (defined in London Plan policy \$13). Tick all healing and cooling systems that will be used in the development: Connection to existing healing or cooling networks powered by gas or electricity Stew Connection to existing healing or cooling networks powered by gas or electricity Stew Connection to existing healing or cooling networks powered by gas or electricity Stew Connection to existing healing or cooling networks powered by gas or electricity Stew Connection to existing healing or cooling networks powered by gas or electricity Stew Connection to existing healing or cooling networks powered by gas or electricity Stew Connection 1 and 1	Read Cearcartion Heat Generation New have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy \$13) Tick all heating and cooling systems that will be used in the development: Connection to estimply heating or cooling networks powered by renewable energy Connection to estimply heating or cooling networks powered by gas or electricity State with CPP heating heating or cooling networks powered by gas or electricity State with CPP heating heating or cooling networks powered by gas or electricity State with CPP heating heating or cooling networks powered by gas or electricity State with CPP heating heating or cooling networks powered by gas or electricity State with CPP heating and cooling powered by renewable energy Communal heating and cooling powered by renewable energy Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling powered by gas or electricity The Communal heating and cooling p				FAL
Heat Generation How have the healting and cooling systems, with preference to the healting system hierarchy, been selected (defined in London Plan policy \$13). Tick all healting and cooling systems that will be used in the development: Connection to existing healting or cooling networks powered by presentable energy Site wide CPP networks powered by gas or electricity Site wide CPP networks powered by gas or electricity Site wide CPP networks powered by gas or electricity Site wide CPP networks powered by gas or electricity Site wide CPP networks powered by gas or electricity See Draft London Plan SI3 Pollution: Alt, Notice and Linott See Draft London Plan SI3 Pollution: Alt, Notice and Linott Does the development plan to induced 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 complete the information request form found on the Richmond website. Has an air qualify mile yes, have congains of new development plan to londone development plan to londone whether the service of 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 qualify mile yes, have Congains of new development taken measures to reduce existing poliution in fire yes, have congains of new development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Policy LP 10 Has the development taken as a transport Application provided residents with a full range of travel options and encourage walking and cycling. This includes measures to reduce legiting poliution specion of an information pack to promotely green travel Polius and pr	Heat Generation How have the healing and cooling systems, with preference to the healing system hierarchy, been selected (defined in London Plan policy \$13). Tick all heating and cooling systems that will be used in year to be desirably pleating or cooling networks powered by gas or electricity Size with coll-Pre-North, powered by rememble emergy Connection to existing heating or cooling networks powered by gas or electricity Size who (CPI) restrict, powered by rememble emergy Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by rememble emergy Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by rememble emergy This power heating and cooling powered by rememble emergy Communal heating and cooling powered by rememble emergy This power heating and cooling powered by rememble emergy Communal heating and cooling powered by rememble emergy This power heating and cooling powered by rememble emergy This power heating and cooling powered by rememble emergy This power heating and cooling powered by rememble emergy This power heating and this power heating and cooling powered by rememble emergy This power heating and cooling and powered by powered to be the heating powered by powered powered by powered po			0	FAL
How have the healting and cooling systems, with preference to the healting system hierarchy, been selected (defined in London Plan policy \$13) Tick all heating and cooling systems that will be used in the development. Connection to existing heating or cooling networks powered by reservable energy Connection to existing heating or cooling networks powered by gas or electricity Site wide CHP network powered by reservable energy Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by reservable energy Communal heating and cooling powered by gas or electricity The property of the development plan to implement reduction strategies for dust emissions from construction sites? See Draft London Plan S13 Pollution Air Notice and Light Does the development plan to implement reduction strategies for dust emissions from construction sites? The proposed bottom is of a qualifying size, you may need to complete the information request form found in the proposed bottom is of a qualifying size, you may need to complete the information request form found in the proposed bottom is of a qualifying size, you may need to complete the information request form found in the proposed bottom is of a qualifying size. You may need to complete the information request form found in the proposed bottom is of a qualifying size. You may need to complete the information request form found in the proposed bottom is of a qualifying size. You may need to complete the information request form found in the proposed bottom is of a qualifying size. You may need to complete the information request form found in the proposed bottom is of a qualifying size. You may need to complete the information request form found in the proposed size of the proposed siz	How have the heating and cooling systems that will be used in the development: Coordination to odding heating or cooling retworks powered by renewable energy Cornection to odding heating or cooling retworks powered by gas or electricity Cornection to odding heating or cooling retworks powered by gas or electricity Site wide CHP retwork powered by gas or electricity Communal heating and cooling powered by gas or electricity Site wide CHP retwork powered by gas Communal heating and cooling powered by renewable energy See Draft London Plan SIS Pollution: Air, Noise and Liaht Does the development plan to include a biomass boiler? If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidence 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 if yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidence 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 if yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidence 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 eigen quality impact assessment been provided if yes, have occupants of rever development plan to include a biomass pure to reduce existing noise and enhance the existing soundscape of the site? Fease Policy LP 10 Please tok only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Fease Policy LP 10 Has the development power of yes of the site of the provided and provided to reduce the provided to reduce the provided to reduce				
cooling systems that will be used in the development: Connection to existing heating or cooling networks powered by renewable energy Connection to existing heating or cooling networks powered by gas or electricity Site wide CPF networks powered by gas or electricity Site wide CPF networks powered by gas or electricity Site wide CPF networks powered by gas or electricity Individual heating and cooling powered by means or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Does the development plan to include a biomass boiler? If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond website If yes, has Crimiscions Noutrail been achieved If yes has the development taken measures to reduce existing noise and enhance the existing soundscape of the sile? Please take (orly) and pl	cooling systems that will be used in the development: Commediation to estating heating or cooling networks powered by renewable energy Commediation to estating heating or cooling networks powered by gas or electricity Site wide CIPI relows powered by gas or electricity Site wide CIPI relows powered by gas or electricity Site wide CIPI relows powered by gas or electricity Individual heating and cooling powered by renewable energy Communal heating and cooling powered by renewable energy Site wide CIPI relows powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Does the development plan to include a biomass bolid? If yes, have called the biomass guidelines for the Borough of Richmond, please see guidance for supplementary information. In the proposed solier in of a qualifying size, you may need to complete the information request form found on the Richmond website. Has an air quality impact assessments been provided If yes, have conspired of the solier and provided if yes, have conspired for the solien golden and provided if yes, have conspired for the solien golden and provided if yes, have conspired to the evelopment been entered to reduce existing notice and enhance the existing soundscape of the site? See Policy LP 10 Has the development taken measures to reduce existing notice and enhance the existing soundscape of the site? In the view of the safe efficient and sustainable movement of people and goods Does your development prov	Hea	t Generation		
Connection to existing heating or cooling networks powered by rearwable energy Connection to existing heating or cooling networks powered by rearwable energy Site wide CHP network powered by remeable energy Communal heating and cooling networks powered by remeable energy Communal heating and cooling powered by rearwable energy Communal heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity Communal heating and cooling powered to make the electricity in the foreign of the bit electricity in the foreign of the bit bit powered to make the electricity powered to make the information request form found on the Richmond well and the power power the power p	Connection to existing heating or cooling networks powered by renewable energy Connection to existing heating or cooling networks powered by as or electricity Sile wide CHP network powered by renewable energy Communal heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity Does the development plan to include a biomass bolier? Pollution: Air, Noise and Light Does the development plan to include a biomass bolier? If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary information. If the proposed bolier is of a qualifying size, you may need to complete the information request form found in the Pollution of the Schrimond wheating If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any ensitive receptors as defined in Policy LP 10 present? If heas the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? The travel plan development provide coportunities for cocupants to use innovative travel technologies? The travel plan development provide coportunities for cocupants to use innovative travel technologies? The travel plan development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate ast		How have the heating and cooling systems, with preference to the heating system hierarchy, been selected (defined in London Plan policy S13) Tick all heating and		
Connection to existing healing or cooling reversable energy Site wide CHP network powered by gas Community The Network powered by gas or electricity See Draft London Plan SIS Pollution: Air. Notes and Light Does the development plan to include a biomanse boiler? Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to include a biomanse boiler? If yes, insect service 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 qualify impact assessment been provided if yes, have occupants of new development been protected from existing pollution if yes, have accupants of new development been protected from existing pollution if yes, have accupants of new development been protected from existing pollution if yes have accupants of new development been protected from existing pollution if no both and yet in the situation of the Richmond version in the Richmond version of the State of	Connection to estating healing or cooling networks powered by gas or electricity Site wide CHP network powered by remeable energy All Part Site wide CHP network powered by remeable energy Community healing and cooling powered by gas or electricity Individual healing and cooling powered by gas or electricity Individual healing and cooling powered by gas or electricity The see Draft London Plan SI3 Pollution: Air, Notes and Light Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to implement reduction strategies for dust emissions from construction sites? If yes, have care 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 information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information request from found in yes, have cougants of rew development been protected from existing pollution If yes, have Emissions Neutral been archived If yes, have Emissions Neutral been archived If yes, have Cougants of rew development protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If as en Policy LP 10 Please tick only one option below Has the development been provided as the existing pollution impacts on character, residential amenity and biodiversity? see Policy LP 10 Has the development provide opportunities for occupants to use innovative travel technologies? The travel plan development provide op				
Sile wide CHP network powered by gas a Sile wide CHP network powered by gas a Communal heating and cooling powered by gas or electricity 7 FAL Communal heating and cooling powered by gas or electricity 7 FAL Communal heating and cooling powered by gas or electricity 7 FAL Communal heating and cooling powered by gas or electricity 7 FAL Communal heating and cooling powered by gas or electricity 8 FAL Communal heating and cooling powered by gas or electricity 8 FAL Communal heating and cooling powered by gas or electricity 8 FAL Communal heating and cooling powered by gas or electricity 8 FAL Communal heating and cooling powered by gas or electricity 8 FAL Communal heating and cooling powered by gas or electricity 8 FAL Communal heating and cooling power by gas or electricity 8 FAL Communal heating and cooling 8 FAL Communal heating 9 FAL Communal h	Sile wide CHP network powered by renewable energy Sile wide CHP network powered by the complete energy Communal heating and cooling powered by renewable energy Communal heating and cooling powered by renewable energy Pollution: Air. Noise and Light Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to include a biomass boile? If yes, please refer to the biomass quietlines for the Borough of Richmond, please see guidance for supplementary information. If the proposed boile is of a qualifying size, you may need to complete the information request form found on the Richmond veeble. Has an air quality impact assessment these provided in a qualifying size, you may need to complete the information request form found on the Richmond veeble. Has an air quality impact assessment these provided in a qualifying size, you may need to complete the information request form found on the Richmond veeble. If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If see Policy LP 10 Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the size? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Policy LP 10 Has the development provide reportunities for coupeaints to use innovative travel excending pollution pollution pollution Report? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage waking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to				
Sile wide CHP network powered by gas Communal heating and cooling powered by renewable energy Communal heating and cooling powered by gas or electricity Individual heating and cooling powered by gas or electricity See Draft London Plan SI3 Pollution: Air. Notes and Linht Does the development plan to include a biomass boiler? If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary If yes, please see The see Training of the State of the Stat	Sile wide CHP network powered by gas Communal beating and cooling powered by renewable energy 2 FACOMMUNIA has a provided a health of the Cooling powered by gas or electricity 3 FACOMMUNIA has the gas cooling powered by gas or electricity 3 FACOMMUNIA Air. Notes and Limit Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to include a biomass boile? If yes, have captured to the biomass guitelines 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 vehallac. Has an air qualify impact assessment been provided if yes, have occupants of new development been protected from existing pollution request form found in yes, have occupants of new development been protected from existing pollution in Policy LP 10 present? If so to any of the above are three any sensitive receptors as defined in Policy LP 10 present? Pleases lick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? The travel plan development taken measures to reduce existing noise and enhance the existing soundscape of the site? The travel plan development provide opportunities for occupants to use innovative				
Communal heating and cooling powered by gas or electricity 1 FAI Communal heating and cooling powered by gas or electricity 1 FAI Individual heating and cooling powered by gas or electricity 1 FAI Individual heating and cooling powered by gas or electricity 1 FAI Individual heating and cooling powered by gas or electricity 1 FAI TR Power of the Cooling of the Cooling of the Cooling of Power of the Cooling of the Cooling of Power of the Cooling of Power of the Cooling of Power of the Cooling of t	Communal heating and cooling powered by gas or electricity Communal heating and cooling powered by gas or electricity See Draft London Plan S3 Pollution. Air. Noise and Lighti Does the development plan to include a biomass boiler? Does the development plan to include a biomass boiler? If yes, plase refet 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 qualify impected from exposed boiler is of a qualifying size, you may need to complete the information request form found on the Richmond website. Has an air qualify impected from exposed boiler is of a qualifying size, you may need to complete the information request form found on the Richmond website. Has an air qualify impected from exposed boiler is of a qualifying size, you may need to complete the information request form found on the Richmond website. Has an air qualify impected from exposed boiler is of a qualifying size. Has an air qualify impected from exposed boiler is of a qualifying size. Has an air qualify impected from exposed properties and the properties of the size of the development baken measures to reduce existing notes and enhance the existing soundscape of the size? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Poky LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? see Poky LP 10 Has the development taken measures to reduce light pollution section below The travel plan developed by COITEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes meas				FAL
Individual heating and cooling See Draft London Plan Si3 Pollution: Air. Notes and Light Does the development plan to include a biomass boiler? Does the development plan to include a biomass boiler? If we place 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 velosite. Has an air quality impact assessment been provided if yes, have occupants of new development been protected from existing pollution if yes, have occupants of new development been protected from existing pollution if no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please Six Policy LP 10 Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? FAI **See Policy LP 10 Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? FAI **See Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? **see Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? **see give any additional relevant comments to the Energy Use and Pollution Section below **Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? **TREAD TRANSPORT** **Provision for the safe efficient and sustainable movement of people and goods Does your development provide of portunities for occupants to use innovative travel technologies? **TREAD TRANSPORT** **Does your development provide provide provision for electric vehicle charging	Individual heating and cooling See Draft London Plan Si3 Pollution: Air, Notes and Light Does the development plan to include a biomass boiler? Does the development plan to include a biomass boiler? If yes, place 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 if yes, have occurred to 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 if yes, have occurred to 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 a challenged if yes, have occurred to 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 if yes, have occurred to 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 and pollution if yes, have occurred to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 TR Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 TR Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 5 TR Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 5 TR The travel plan developed by COTTEE Transport			2	FAL
See Draft London Plan SIS Pollution: Air. Notices and Light Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to include a biomass boiler? If yes, please refier 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 information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information request formation request formation request formation request formation request	See Draft London Plan ISIS Pollution: Air, Notes and Light Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to include a biomass boiler? If yes, pieces 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 of the provision of a qualifying size, you may need to complete the information request form found on the Richmond website. If yes, has Emissions Neutral been achieved If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please bick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Asse Policy LP 10 Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Asse Policy LP 10 Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Asse Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? Subtotal 12 **THE ASSEPTION SUBJECT Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage eycling, car club schemes, and the provision of an information pack to promote green travel **Port major developments (provide for 100%, active provision for electric whelle charging point(s) and have you successfully demonstrated that it would be able to operate a satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Have you provided a Tran		Communal heating and cooling powered by gas or electricity		FAL
Pollution: Air. Notes and Light Does the development plan to include a biomass boiler? Does the development plan to 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 propose boiler is of a qualifying size, you may need to complete the information request form found on the Richmond welsale. Has an air quality impact the size of the biomass guidelines for the Borough of Richmond, please see guidance for supplementary information. If the propose bolier is of a qualifying size, you may need to complete the information request form found on the Richmond welsale. Has an air quality impact has Emissions Neutral been achieved if yes, have occupants of new development been protected from existing pollution if yes, have occupants of new development been protected from existing pollution if yes, have occupants of new development been protected from existing soundscape of the site? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to not create any new noise generation/transmission issues in its intended operation? The 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? The see quality and additional relevant comments to the Energy Use and Pollution Section below Provision for the safe efficient and sustainable movement of people and goods Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it w	Pollution: Air, Noise and Light Does the development plan to include a biomass boiler? Does the development plan to 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 complete the information request form found information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found information. If the proposed sold in the size of the size		Individual heating and cooling	0	TRU
Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to 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 complete the information request form found on the Richmond website. Has an air quality impact assessment been provided If yes, have occupants of new development been achieved If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? FALL See Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? Subtoal 12 **TRANSPORT** **Provision for the safe efficient and sustainable movement of people and goods** Does your development provide opportunities for occupants to use innovative travel technologies? **TRANSPORT** Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments DNA; Has a Transport Assessment been produced for your development based on TIL's Best Practice Guidance? If you have provided a Transport Assessment been produced for your development based on TIL's Best Practice Guidance? If you hav	Does the development plan to implement reduction strategies for dust emissions from construction sites? Does the development plan to 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 complete the information request form found on the Richmond website. Has an air quality impact assessment leven provided. If yes, hase Emissions Neutral been schieved if yes, have occupants of new development been protected from existing pollution if yes, have been schieved if not above are there any sensitive receptors as defined in Policy LP 10 present? Please Eick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Fall travel plan development provide opportunities for occupants to use innovative travel technologies? The travel plan development provide opportunities for occupants to use innovative travel technologies? For major development provide				
Does the development plan to 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 complete the information request form found on the Richmond website. Has an air quality impact assessment been provided If yes, has Emissions Neutral been achieved If yes, has Emissions Neutral been achieved If yes, has ecoupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors and enhance the site? If no the development taken measures to reduce legit policy and policy and policy and policy per travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promo	Does the development plan to 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 complete the information request form found on the Richmond website. If yes, has 'Emissions Neutral' been achieved If yes, has 'Emissions Neutral' been achieved If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? As ee Policy LP 10 Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? As ee Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? Subtotal 12 asse give any additional relevant comments to the Energy Use and Pollution Section below **TRANSPORT** The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major development provide of 100% solve provision for electric vehicle charging point(s) and have you	Poll		2	TDI
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 If yes, has "Emissions Neutral" been achieved If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation? ### Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? #### Bas the development provide in pollution Report? #### Bas the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? #### Bas the development provide opportunities for occupants to use innovative travel technologies? #### Provision for the safe efficient and sustainable movement of people and goods #### Does your development provide opportunities for occupants to use innovative travel technologies? #### Transport Flanning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel #### Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be ab	If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary information. If the proposed bolier is of a qualifying size, you may need to complete the information request form found on the Richmond website. Has an air qualify impact assessment been provided If yes, has 'Emissions Neutral' been achieved If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce legist pollution impacts on character, residential amenity and biodiversity? The Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? The Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? The Has the development taken measures to reduce light pollution specification in pacts on character, residential amenity and biodiversity? The Has the development taken measures to reduce light pollution Section below Subtotal Texasse quive any additional relevant comments to the Energy Use and Pollution Section below Subtotal The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision of referric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being elect		Does the development plan to implement reduction strategies for dust emissions from construction sites?	2	IK
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 If yes, has "Emissions Neutral" been achieved If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation? ### Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? #### Bas the development provide in pollution Report? #### Bas the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? #### Bas the development provide opportunities for occupants to use innovative travel technologies? #### Provision for the safe efficient and sustainable movement of people and goods #### Does your development provide opportunities for occupants to use innovative travel technologies? #### Transport Flanning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel #### Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be ab	If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary information. If the proposed boller is of a qualifying size, you may need to complete the information request form found on the Richmond website. Has an air qualify impact assessment been provided If yes, has 'Emissions Neutral' been achieved If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 TE Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 Subtoal 12 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 Subtoal 12 **RANSPORT** **Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? **TRANSPORT** The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging gionit(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major development provide of 100% active		Does the development plan to include a biomass boiler?		FAL
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 qualify impact assessment been provided If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? \$\frac{\text{TR}}{\text{see Policy LP 10}}\$ Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? \$\frac{\text{See Policy LP 10}}{\text{see policy LP 10}}\$ Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? \$\frac{\text{See policy LP 24}}{\text{see policy LP 10}}\$ \$\frac{\text{TR}}{\text{see policy LP 10}}\$ \$\text{TR	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 qualify impact assessment been provided If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 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? No **TRANSPORT** **TRANSPORT** The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide on 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? Does your development provide offor 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major development provide cycle storage? (Slandard space requirements are set out in the Council's Parking Slandards - Local Plan Appendix 3) FAI FO		If yes, please refer to the biomass guidelines for the Borough of Richmond, please see guidance for supplementary		
Has an air quality impact assessment been provided if yes, has 'Emissions Neutral' been achieved if yes, has 'Emissions Neutral' been achieved if yes, have occupants of new development been protected from existing pollution if yes, have occupants of new development been protected from existing pollution if yes, have occupants of new development been protected from existing pollution if yes, have occupants of new development been protected from existing pollution if yes, have occupants of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to not create any new noise generation/transmission issues in its intended operation? **TR** **RAMSPORT** **Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? **RAMSPORT** **Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? **TR** **RAMSPORT** **Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? **TR** **TR** **Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? **TR** **TR** **Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? **TR** **TR** **Provision for the safe efficient and sustainable movement of people and goods Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully de	Has an air quality impact assessment been provided If yes, have occupants of new development been protected from existing pollution If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? 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? No **RANSFORT** **Provision for the safe officient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? **THE travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car cub schemes, and the provision of an information pack to promote green travel **Does your development provide of 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? **Por major developments ONLY: Has a Transport Assessment as part of your development based on Tit'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. **FAR **FOR smaller developments ONLY: Has a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist. **FAR **FOR smaller developments ONLY: Has you provided a Transport Statement? **FOR smaller developments ONLY: Has you provided a Transport Statement? **FOR smaller developments ONLY: Has you provided a Transport		information. If the proposed boiler is of a qualifying size, you may need to complete the information request form found		
If yes, has 'Emissions Neutral' been achieved if yes, have occupants for hew development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please S If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please S If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please S If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please S If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Also the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Also the development town taken taken measures to reduce existing noise and enhance the site? Also the development town taken taken taken measures to provide residential amenity and biodiversity? Also the development town taken taken measures to reduce existing noise and enhance the site? Also the development taken t	If yes, has Temissions Neutral been achieved If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation? ### Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### see Policy LP 10 ### Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### see Policy LP 10 ### Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### see Policy LP 10 ### Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### see Policy LP 10 ### Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### see Policy LP 10 ### Has the development provide on the Energy Use and Pollution Section below ### Pollution Report Pollution Report? ### Pollution Report Pollution Report Pollution Report Pollution Section below ### ### Pollution Report Pol				
If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Also the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Also the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? Base Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? Base Policy LP 10 Have you attached a Lighting Pollution Report? Also Subtotal 12 Subtotal 12 RANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Base explain: The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. FALL For major developments ONLY: Has a Transport Assessment as part of your planning application, please tick here an	If yes, have occupants of new development been protected from existing pollution If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### As the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### As the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### As the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### As the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### As the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### As the development provide original pollution Report? ### As the development taken measures to reduce light pollution freports ### As the development provide original pollution Report? ### As the development provide opportunities for occupants to use innovative travel technologies? ### As the development provide opportunities for occupants to use innovative travel technologies? ### As the development provide opportunities for occupants to use innovative travel technologies? ### As the development provide opportunities for occupants to use innovative travel technologies? ### As the development provide opportunities for occupants to use innovative travel technologies? ### As the development provide opportunities for occupants to use innovative travel technologies? ### As the development provide opportunities for occupants to use innovative tr				
If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation? TRA 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 Lightling Pollution Report? Subtotal 12 See qive any additional relevant comments to the Energy Use and Pollution Section below Subtotal 12 SEANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? TRA SEE explain: The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle changing point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Has a Transport Assessment as part of your development based on TRL'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. 5 TRA TR TR TR TR TR TR TR TR T	If no to any of the above are there any sensitive receptors as defined in Policy LP 10 present? Flease tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### As the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### As the development provide opportunities for occupants to the Energy Use and Pollution Section below ### Assequive any additional relevant comments to the Energy Use and Pollution Section below ### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section below #### Assequive any additional relevant comments to the Energy Use and Pollution Section Below to the Energy Use and Pollution Section Below to the Energy Use and Pollution Section Below to the Energy Use				
Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation? The 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? Subtotal 12 See give any additional relevant comments to the Energy Use and Pollution Section below Subtotal 12 See give any additional relevant comments to the Energy Use and Pollution Section below FANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? In the travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FALSE FALSE FALSE TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Transport Assessment as part of 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.	Please tick only one option below				
Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation? The see Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 TR FAL The see Policy LP 10 Have you attached a Lighting Pollution Report? - No Subtotal 12 The see qive any additional relevant comments to the Energy Use and Pollution Section below Subtotal 12 The see qive any additional relevant comments to the Energy Use and Pollution Section below The see explain: The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electricity being to your development based on TfL's Best Practice Guidance? If you have provided 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. FAL FAL FAL FAL FAL FAL FAL FA	Please tick only one option below Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation? ### FAI ### See Policy LP 10 Have the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? ### Subtotal T2 ### Subtotal T2 ### Subtotal T2 ### Subtotal T2 ### Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? ### Takes explain: ### Takes of the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? ### Takes of the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? #### Takes of the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? #### Takes of the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? #### Takes of the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel travel travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel #### Does your developments ONLY: Has a Transport Assessment been produced for your development based on TIL's Best Practice Guidance? #### If you have provided a Transport Assessment been produced for your development planning application, please tick here and move to Section 3 of this Checklist. #####			-1	IK
Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation? The see Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 TR See Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 TR See Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 TR See Policy LP 10 Has the development taken care to not create any new noise generation/transmission issues in its intended operation? 3 TR FAL TR Subtotal 12 Subtotal 12 Subtotal 12 TR TR TR TR TR TR TR TR TR T	Has the development taken measures to reduce existing noise and enhance the existing soundscape of the site? Has the development taken care to not create any new noise generation/transmission issues in its intended operation? 1 FA See Policy LP 10 Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity? 3 JEF See Policy LP 10 Have you attached a Lighting Pollution Report? No No Subtotal 12 TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide of 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Has a Transport Assessment been produced for your development based on TIL's Best Practice Guidance? If you have provided a Transport Assessment been produced for your development based on TIL's Best Practice Guidance? If you have provided a Transport Assessment been produced for your development based on TIL'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. 5 FAI Does your developments ONLY: Have you provided a Transport Statement? 5 TE Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3)		560 Folia, E. 1.6		
Has the development taken care to not create any new noise generation/transmission issues in its intended operation? FAL	Has the development taken care to not create any new noise generation/transmission issues in its intended operation? ### Asset 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? **Subtotal** Texas				
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? No Subtotal 12 Subtotal 12 RANSFORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? TR see explain: The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL FAL TR Subtotal 12 Subtotal 12 TR No No No No No No No No No N	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? No Subtotal 12 TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. FAI Does your developments ONLY: Have you provided a Transport Statement? The power of your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3)				TRU
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? - No Subtotal 12 RANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Tree explain: the travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL FAL TR Subtotal 12 No No No No No No No No No N	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? Subtotal 12 TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car dub schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAI For smaller developments ONLY: Have you provided a Transport Statement? 5 TRESTANDANCE FAI Does your development SONLY: Have you provided a Transport Statement? 5 TRESTANDANCE FAI The travel plan development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TRESTANDANCE The provision of the future of travel options and encourage walking and cycling. This includes measures to encourage cycling, car dub schemes, and the provision of an information pack to promote green travel FAI FOR smaller developments ONLY: Have you provided a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist. 5 TRESTANDANCE FAI FAI FAI FOR smaller developments ONLY: Have you provided			1	FAL
see Policy LP 10 Have you attached a Lighting Pollution Report? Subtotal 12 RANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Tree explain: The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL	Subtotal 12 Have you attached a Lighting Pollution Report? - No Subtotal 12 Subtotal 12 TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. FAI The see policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 5 TR Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR		see Policy LP 10		
see Policy LP 10 Have you attached a Lighting Pollution Report? Subtotal 12 RANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Tree explain: The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL	Subtotal 12 Have you attached a Lighting Pollution Report? - No Subtotal 12 Subtotal 12 TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. FAI The see policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 5 TR Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR				
RANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? TR Travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL	TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Has a Transport Assessment been produced for your development based on TIL'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. FAI For smaller developments ONLY: Have you provided a Transport Statement? The provided of the provided of the provided a Transport Statement? Transport State		Has the development taken measures to reduce light pollution impacts on character, residential amenity and biodiversity?	3	TRI
RANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? It was explain: Does your development provide opportunities for occupants to use innovative travel technologies? TRU Trusport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL	TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. FAI See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR		see Policy LP 10	3	TRI
RANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? It was explain: Does your development provide opportunities for occupants to use innovative travel technologies? TRU Trusport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL	TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Sease explain: The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Has a Transport Assessment been produced for your development based on TIL'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. FAI For smaller developments ONLY: Have you provided a Transport Statement? The provided of the provided of the provided a Transport Statement? The provided of the provided of the provided a Transport Statement? The provided of the provid		see Policy LP 10	3	
RANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Itsusse explain: The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Has a Transport Assessment been produced for your development based on Tft'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. 5 FAL	TRANSPORT Provision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. FAI See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 5 TR Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR		see Policy LP 10		
Does your development provide opportunities for occupants to use innovative travel technologies? TR se explain: The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Has a Transport Assessment been produced for your development based on Tft'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. 5 FAL	Does your development provide opportunities for occupants to use innovative travel technologies? The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	ease (see Policy LP 10 Have you attached a Lighting Pollution Report?		No TRU
the travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging pint(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL	The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Comparison of the provided of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Comparison of the provided of the provided of transport of the provision of an information pack to promote green travel Score		see Policy LP 10 Have you attached a Lighting Pollution Report? Paive any additional relevant comments to the Energy Use and Pollution Section below		
The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. FALL See Policy LP44	The travel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cycling. This includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? The Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 Transport Assessment been produced for your development of the council's Parking Standards - Local Plan Appendix 3)	RAN	see Policy LP 10 Have you attached a Lighting Pollution Report? give any additional relevant comments to the Energy Use and Pollution Section below ISPORT vision for the safe efficient and sustainable movement of people and goods		No
includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL	includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Score Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	RAN	see Policy LP 10 Have you attached a Lighting Pollution Report? give any additional relevant comments to the Energy Use and Pollution Section below ISPORT vision for the safe efficient and sustainable movement of people and goods		No
includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL	includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Score Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	TRAN Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? give any additional relevant comments to the Energy Use and Pollution Section below ISPORT Vision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies?		No
Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAL	Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	TRAN Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? give any additional relevant comments to the Energy Use and Pollution Section below ISPORT Vision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies?		No
Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. FAL See policy LP44	Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. 5 FAI See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 5 TR Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? All Pollution Report	Subtotal 12	No
operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. FAL See policy LP44	operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 5 TR Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? All Pollution Report	Subtotal 12	No
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. 5 FAL See policy LP44	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. 5 FAI See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 5 TR Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? All Pollution Report	Subtotal 12	No
If you have provided a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist. 5 See policy LP44	If you have provided a Transport Assessment as part of your planning application, please tick here and move to Section 3 of this Checklist. 5 FA See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 5 TR Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? Sisport	Subtotal 12	No TRI
See policy LP44	See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? 5 TR Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? Size Policy LP 10 10 10 10 10 10 10 1	Subtotal 12	No TRI
	For smaller developments ONLY: Have you provided a Transport Statement? 5 TR Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) 2 TR	Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? All Pollution Report	Subtotal 12 dding. This Score	No TRU
		Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? Size Policy P	Subtotal 12 dding. This Score	No TRU
		Prov	SPORT Isport Institute plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cy includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide opportunities for occupants to use innovative travel technologies? Explain: It was plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cy includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for refetric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44	Subtotal 12 doing. This Score 2 5	No TRU
	II SO, TOT DOW MADY DICYCIES?	Prov	see Policy LP 10 Have you attached a Lighting Pollution Report? See Policy LP 10	Subtotal 12 doing. This Score 2 5	No TRU
		Prov	In the full range of travel options and encourage walking and cycles a power development provide for 100% active provided a Transport Assessment as part of your pleaning application, please tick here and move to Section 3 of this Checklist. For major developments ONLY: Has a Transport Assessment as part of your development boxley: Have you provided a Transport Statement? Does your development provide opportunities for occupants to use innovative travel technologies? Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Has a Transport Assessment as part of 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3)	Subtotal 12 cling. This Score 2 5 5 2	No TRU
	is this shown on the site Dians?	Prov	ISPORT ISPORT Island a Lighting Pollution Report? ISPORT Island a Lighting Pollution Report Use and Pollution Section below ISPORT Island for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: Itravel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cyniculdes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles?	Subtotal 12 doing. This Score 2 5	TRU FAL TRU TRU
See Local Plan Annendiy 3		Prov	See Policy LP 10 Have you attached a Lighting Pollution Report? SISPORT Wision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Has a Transport Assessment been produced for your development based on TiL'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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans?	Subtotal 12 cling. This Score 2 5 5 2	FAL TRU
See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR	See Local Plan Appendix 3	Prov	ISPORT ISPORT Island a Lighting Pollution Report? ISPORT Island a Relevant comments to the Energy Use and Pollution Section below ISPORT Island for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: Itravel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cyniculdes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3	Subtotal 12 coling. This Score 2 5 5 5 2 45	FAL FAL TRI
See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details.	See Local Plan Appendix 3	Prov	ISPORT ISPORT Island a Lighting Pollution Report? ISPORT Island a Relevant comments to the Energy Use and Pollution Section below ISPORT Island for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: Itravel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cyniculdes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3	Subtotal 12 coling. This Score 2 5 5 5 2 45	FAL FAL TRI
Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR Subtotal 9	See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR Subtotal 9	Provide ase 6	INSPORT Wision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: It was plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cy includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details.	Subtotal 12 cling. This Score 2 5 5 2 45	FAL: FAL: TRU TRU
Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR Subtotal 9	See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR Subtotal 9	Provide ase 6	INSPORT Wision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: It was plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cy includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details.	Subtotal 12 cling. This Score 2 5 5 2 45	
Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR Subtotal 9	See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR	Provide ase	INSPORT Wision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: It was plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cy includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details.	Subtotal 12 cling. This Score 2 5 5 2 45	FAL FAL TRU
		Prov	See Policy LP 10 Have you attached a Lighting Pollution Report? SISPORT Wision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide opportunities for occupants to use innovative travel technologies? Explain: It is a development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? For major developments ONLY: Has a Transport Assessment been produced for your development based on TiL'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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans?	Subtotal 12 cling. This Score 2 5 5 2	FAL TR
See Local Plan Appendix 3	See Local Plan Appendix 3	Prov	ISPORT ISPORT Island a Lighting Pollution Report? ISPORT Island a Relevant comments to the Energy Use and Pollution Section below ISPORT Island for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: Itravel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cyniculdes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3	Subtotal 12 coling. This Score 2 5 5 5 2 45	FAL FAL TRI
See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR	See Local Plan Appendix 3	Prov	ISPORT ISPORT Island a Lighting Pollution Report? ISPORT Island a Relevant comments to the Energy Use and Pollution Section below ISPORT Island for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: Itravel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cyniculdes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3	Subtotal 12 coling. This Score 2 5 5 5 2 45	FAL TRI
Will the development create or improve links with local and wider transport networks? If yes, please provide details.	See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details.	Prov	ISPORT ISPORT Island a Lighting Pollution Report? ISPORT Island a Relevant comments to the Energy Use and Pollution Section below ISPORT Island for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: Itravel plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cyniculdes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3	Subtotal 12 cling. This Score 2 5 5 2 45	FAL FAL TRU
Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR Subtotal 9	See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR Subtotal 9	Provide the state of the state	INSPORT Wision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: It was plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cy includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details.	Subtotal 12 cling. This Score 2 5 5 2 45	FAL FAL TRI
Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR Subtotal 9	See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details. 2 TR Subtotal 9	Provide the state of the state	INSPORT Wision for the safe efficient and sustainable movement of people and goods Does your development provide opportunities for occupants to use innovative travel technologies? Explain: It was plan developed by COTTEE Transport Planning confirm that there are measures to provide residents with a full range of travel options and encourage walking and cy includes measures to encourage cycling, car club schemes, and the provision of an information pack to promote green travel Does your development provide for 100% active provision for electric vehicle charging point(s) and have you successfully demonstrated that it would be able to operate satisfactorily in the future expectation of all vehicles being electrically powered? 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. See policy LP44 For smaller developments ONLY: Have you provided a Transport Statement? Does your development provide cycle storage? (Standard space requirements are set out in the Council's Parking Standards - Local Plan Appendix 3) If so, for how many bicycles? Is this shown on the site plans? See Local Plan Appendix 3 Will the development create or improve links with local and wider transport networks? If yes, please provide details.	Subtotal 12 cling. This Score 2 5 5 2 45	No TR

4	BIODIVERSITY		
4.1 M i a.	Ilinimising 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) If so, please state how much in syam?	-2 0 sqm	FALSE
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)		FALSE FALSE
C.	Does your development plan to add (and not remove) any tree(s) on site? (Indicate if yes)		FALSE
d.	An intensive green roof 4 Area provided: Garden space 4 Area provided: 2	sqm 50 sqm sqm sqm 64 sqm sqm sqm	FALSE TRUE FALSE TRUE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE FALSE
e.	Does your development use at least 70% of available roof plate as green/brown roof Policy LP 17 requires 70% Subtot	1 tal 12.5	FALSE
The n	ne give any additional relevant comments to the Biodiversity Section below measure detailed in (d) were incorporated as part of the exisiting development on site and the proposed development benefits from them. A green roof has been installed, but this does not row of the available roof plate, as solar panels have also been installed on the roof. The use of green roofs and photovoltaic panels together increases the efficiency of solar photovoltation panels by regulating temperature. The reduced CO2 emissions due to the use of solar panels is an added benefit to the development.	ot	
5	FLOODING AND DRAINAGE		
5.1 Mitiga a.	ating the risks of flooding and other impacts of climate change in the borough Is your site located in a high flood risk zone (Zone 3)? (Indicate if yes) Have you submitted a Flood Risk Assessment? (Indicate if yes)	-2	TRUE TRUE
The The o	Use of infiltration techniques such as porous surfacing materials to allow drainage on-site Attenuate rainwater in ponds or open water features Store rainwater in tanks for gradual release to a watercourse Discharge rainwater to surface water drain Discharge rainwater to surface water drain Discharge rainwater to surface water drain Discharge rainwater to combined sewer How you submitted a Drainage Statement (Indicate if yes) See Policy LP 21 and Draft London Plan St. 13 Please give the change in area of permeable surfacing which will result from your development proposal: Please provide details of the permeable surfacing below Please provide details of the permeable surfacing below Subtot se give any additional relevant comments to the Flooding and Drainage Section below proposed dwellings are at 1st floor level, and are at a level identical to the level (FFL) of 6 other approved dwellings at 1st floor level; and as a consequence there is no risk of inundation conversion of units is within the existing building; hence, there is no change in permeable area. The conversion dwellings have no impact at all, and contribute no outfall to the drains or the adjoining/adjacent rivers. The surface water runoff is dealt with by the envelope and infrastructure of the existing building. IMPROVING RESOURCE EFFICIENCY	1.	TRUE TRUE FALSE TRUE FALSE TRUE TRUE TRUE
6.1 Re a.	educe waste generated and amount disposed of by landfill though increasing level of re-use and recycling 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
u.	If so, what percentage of demolition waste will be recycled? What percentage of demolition waste will be recycled?	% %	INCL
b.	· · · · · · · · · · · · · · · · · · ·	1 2 2 1 1	FALSE FALSE FALSE FALSE FALSE
C.	Will a waste management plan and facilities be in place in line with Policy LP24	ns	
6.2 Re a.	educing levels of water waste 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 Use of water efficient A or B rated appliances Rainwater harvesting for internal use Greywater systems Fit a water meter	1 1 4 4 1	TRUE TRUE FALSE FALSE TRUE
Please	Subtot se give any additional relevant comments to the Improving Resource Efficiency Section below	al 3	
Dem	e give any additional relevant comments to the improving resource Emidency Section below	e	

Demolition is not anticipated, as the proposed development is a conversion of the existing office space into dwellings. This will mainly involve a fitout. Remediation was undertaken during the development of the whole site previously and the corresponding planning condition was approved. Remediation for the proposed development, which involves conversion within the existing building, is therefore outside the scope of works, individual water meters will be installed in the new dwellings. A++ rated dishwashers and washing machines will be provided.

7 ACCESSIBILITY

a.	If the development is		term use of structures If it meet the requirements of the nationally described space standard for internal space and layout?	1	TRUE
		If the standard	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		Il it meet Building Regulation Requirement M4 (2) 'accessible and adaptable dwellings'?	2	TRUE
		If this is not m	et, in the space below, please provide details of any accessibility measures included in the development.		
0.0			dential developments, are 10% or more of the units in the development to Building Regulation M4 (3) 'wheelchair user dwellings'?	1	TRUE
OR c.	If the development is	non-residenti	al, does it comply with requirements included in Richmond's Local Plan LP1, LP28.B, LP30 & LP45	2	Please Select:
		Please provid	e details of the accessibility measures specified in the Local Plan that will be included in the development		
				Subtotal 4	
Please	give any additional rele	vant comments	to the Design Standards and Accessibility Section below		
			The Design and Access statement confirms that the M4 (2) and M4(3) requirements will be met.		
			The besign and Access statement committee that the Wi4 (2) and Wi4(3) requirements will be met.		
LBRUT Su			oring Matrix for New Construction (Non-Residential and domestic refurb)	TOTAL 59.5	
LBRUT Su	Score	Rating	Significance	TOTAL 59.5	
LBRUT Su	Score 84 or more	Rating A+	Significance Project strives to achieve highest standard in energy efficient sustainable development	TOTAL 59.5	
LBRUT Su	Score 84 or more 75-83	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	TOTAL 59.5	
LBRUT Su	Score 84 or more	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	TOTAL 59.5	
LBRUT Su	Score 84 or more 75-83 56-74	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	TOTAL 59.5	
	Score 84 or more 75-83 56-74 40-55 39 or less	A+ A B C FAIL	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 compilance Does not comply with SPD Policy	TOTAL 59.5	
	Score 84 or more 75-83 56-74 40-55 39 or less ustainable Constructio	Rating A+ A B C FAIL	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 Does not comply with SPD Policy Oring Matrix for New Construction Residential new-build	TOTAL 59.5	
	Score 84 or more 75-83 56-74 40-55 39 or less	Rating A+ A B C FAIL Checklist- Sc Rating	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 Does not comply with SPD Policy Oring Matrix for New Construction Residential new-build Significance	TOTAL 59.5	
	Score 84 or more 75-83 56-74 40-55 39 or less Istainable Construction Score 85 or more	Rating A+ A B C FAIL C FAIL A Checklist- So Rating A++	Significance Project Strives to achieve highest standard in energy efficient sustainable development	TOTAL 59.5	
	Score 84 or more 75-83 56-74 40-55 39 or less Istainable Constructio Score 85 or more 68-84	Rating	Significance Project strives to achieve highest standard in energy efficient sustainable development	TOTAL 59.5	
	Score	Rating A+ A B C FAIL C FAIL C Hating A++ A+ A	Significance	TOTAL 59.5	
	Score	Rating A+ B C FAIL Checklist-Sc Rating A++ A+ A B	Significance Project strives to achieve highest standard in energy efficient sustainable development	TOTAL 59.5	
	Score	Rating	Significance Project strives to achieve highest standard in energy efficient sustainable development.	TOTAL 59.5	
	Score	Rating A+ B C FAIL Checklist-Sc Rating A++ A+ A B	Significance Project strives to achieve highest standard in energy efficient sustainable development	TOTAL 59.5	
LBRUT Su	Score	Rating	Significance Project strives to achieve highest standard in energy efficient sustainable development.	TOTAL 59.5	
LBRUT Su	Score	Rating A+ A B C FAIL Checklist-Sc Rating A++ A+ B C FAIL C FAIL C FAIL C FAIL C FAIL	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 Does not comply with SPD Policy		
LBRUT Su	Score	Rating A+ A B C FAIL Checklist-Sc Rating A++ A+ B C FAIL C FAIL C FAIL C FAIL C FAIL	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 Does not comply with SPD Policy	TOTAL 59.5 Date 02.09.2020	

Appendix B

Water Calculator



Water Efficiency Calculator Unit B1 Railshead Road

			Internal Water Consumption				
Installation Type	Unit of Measure	Capacity / Flow Rate	Litres/person/day	Notes			
	Full Flush Volume (Litres)	6	8.76	Low flush WCs will be installed to reduce the volume of water consumed during flushing. All			
wc	Part Flush Volume (Litres)	4	11.84	WCs will have dual flush cisterns which will provide both part (4L) and full (6L) flushes.			
Basin Tap	Flow Rate (Litres/minute)		7.90	All taps (excluding kitchen taps) will be reduced to 4 litres/minute using flow restrictors. Where multiple taps are to be provided the average flow rate will be used.			
Bath	Capacity (Litres to overflow)	160	17.60	All baths will have reduced capacities of 160 litres (excluding displacement). The bath taps are not included in this calculation as they are already incorporated into the use factor for the baths.			
Shower	Shower Flow Rate (Litres/minute) 8		34.96	Shower flow rates will be reduced to a maximum of 8 litres/minute using flow restrictors fixed to the shower heads. These contain precision-made holes or filters to restrict water flow and reduce the outlet flow and pressure.			
Kitchen Tap	Flow Rate (Litres/minute)	5	12.56	Kitchen taps will be reduced to 5 litres/minute using flow restrictors which will be fitted within the console of the tap or in the pipework.			
Washing Machine	Water Consumption (Litres/kg)	8.17	17.16	Water efficient washing machines or washer-dryers will be specified. The make and model numbers of the appliances are unknown at this stage therefore a default figure of 8.17 litres/kg has been assumed.			
Dishwasher	Water Consumption (Litres/place setting)	1.25	4.50	All dishwashers will be water efficient. The make and models numbers are unknown therefore a default figure of 1.25 litres/place setting has been assumed at this stage.			
		nter Consumption itres/person/day)	115.3				
	Nort	malisation Factor	0.91				
	Total Internal Wate (Litr	r Consumption es/person/day)	104.9	The total <i>internal</i> water consumption target of ≤105 litres/person/day will be achieved in accordance with Regulation 36 para (2)b optional requirement Approved Document G.			
	Allowance for External Wa	nter Consumption itres/person/day)	5				
		r Consumption es/person/day)	109.9	The total water consumption target of ≤110 litres/person/day will be achieved in accordance with Regulation 36 para (2)b optional requirement of Approved Document G.			

Appendix C

BREEAM Domestic
Refurbishment 2014 Preassessment targeting
'Excellent' rating



BREEAM Domestic Refurbishment (2014) PRE-ASSESSMENT

Unit B1 Railshead Road

Development Description:

Conversion of a commercial space on the western half of the first floor of the building into 6 residential units.

Mizen Properties Limited
No 1 Railshead Road, St Margarets, Old Isleworth, Middlesex, TW7 7EP

Zoë Lowther
Hodkinson Consultancy, Trinity Court, Batchworth Island, Church Street, Rickmansworth Tel: 020 3603 1619

Email: zoe@hodkinsonconsultancy.com

Author: Z Lowther Checked by: Z Watkins Approved by Project Manager: Z Lowther This Pre-Assessment is designed to track the design stage assessment through to iterim certification. It details the evidence to be provided by the respective design team members to meet the BREEAM criteria, and highlights the design requirements to achieve the credits.

Target Design Score - This represents the design route to achieve the required BREEAM rating. The design measures and evidence should therefore be provided as stated in the Evidence Required column.

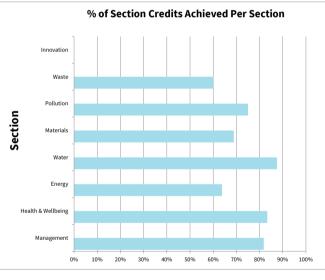
Current Design Score - This represents the credits which have been fully secured through the full and correct provision of evidence for the credit to be awarded.

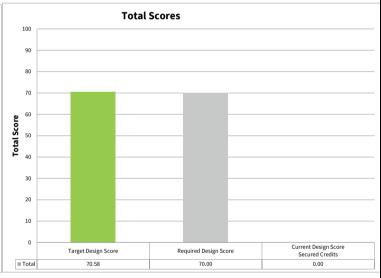


Predicted Scores

Document Control Record:

70.58 BREEAM Level Sought **Credits Required Target Design Score** Excellent 70 **BREEAM Level Achieved** Excellent **Mandatory Level Met** Categories 1 2 3 4 5 6 Total 1 2 3 4 5 6 Total 1 2 3 4 5 6 7 8 9 10 Total 1 2 3 Total 1 2 3 Total 1 2 3 Total 1 2 Total Total Points 1 4 1 1 2 1 14.17 3 2.5 3 0 2 1 2 2 2 1 27.43 3 1 1 1 1 2 9.82 2.5 0 1 7.70 15 8 8 5.17 3 1 2 4.50







Section 1 - Management

Issue	Total Credits Available	Credits Targeted	Innovation Credit	Evidence Needed
MAN 1 Home User Guide (HUG)	3	3	N/A	A Home User Guide will be provided to all dwellings, covering the below as a minimum: About BREEAM Domestic Refurbishment Materials and Waste Recommendations Report Emergency Information Energy Efficiency Local Amenities Water Use Provision of Information in Alternative Formats Transport Facilities Links and references
MAN 2 Responsible Construction Practices (1 Innovation Credit)	2	1		The scheme to be registred with the Considerate Constructors and a score of 25-34 with a score of 5 in each section is achieved. Completed copy of Checklist A5 - Large Scale Refurbishment
MAN 3 Construction Site Impacts	1	1	N/A	Monitor, report and set targets for CO_2 production of energy use arising from site activities. Monitor, report and set targets for water consumptions arising from site activities. All site timber to be sourced from suppliers capable of providing certification.
MAN 4 Security	2	1	N/A	External Doors will achieve the following: PAS24:2007 and/or LPS1175 Issue 7 Security Rating 1 or equivalent Windows will achieve the following: BS7950:1997(36) and/or LPS1175 Issue 7 Security Rating 1 or equivalent
MAN 5 Protection and Enhancement of Ecological Features (1 Innovation Credit)	1	1		Site survey to determine the presence of ecological features. Any recommendations set out by the SNCO will be implemented and all ecological features will be protected.
MAN 6 Project Management (2 Innovation Credit)	2	2		Responsibilities Schedule stating when the collaboration began and the roles and responsibilities of project team. Compliant aftercare support and training to be provided to the occupants.



Section 2	ection 2 - Health & Wellbeing								
HEA 1 Daylighting	2	1	N/A	First credit - maintaining good daylight: The refurbishment results in a neutral impact on the dwellings daylighting levels in the kitchen, living room, dining room and study.					
HEA 2 Sound Insulation	4	4	N/A	Sound testing to be 5dB improvement over Part E Building Regulations.					
HEA 3 Volatile Organic Compounds	1	1	N/A	The VOC content of the relevant specified product types will comply with the required European Standards.					
HEA 4 Inclusive Design (1 Innovation Credit)	2	1		Complete Section 1 of Appendix A: Hea 04 - to be completed by an access exprt or suitably qualified member of the design stage. Access Statement which covers the requirements in Section 1 (and 2 if going for 2 credits).					
Has the MIN	IMUM STANDARD be	en met?	Yes						
HEA 5 Ventilation	2	2		Ventilation to meet the requirements of Section 5 of Building Regulations Part F in full.					
Has the MIN HEA 6 Safety	IMUM STANDARD be	en met?	Yes	Compliant fire and carbon monoxide detection and alarm system: - Fire detection & alarm systems in accordance with BS 5839-6:2013 and to at least a Grade D Category LD3 standard - Carbon monoxide detector and alarm system should be in accordance with and positioned in accordance to BS EN 50291-1:2010+A1:2012 and BS EN 50292:2013					



Section 3	- Energ	S y		
ENE 1				Make, model and type of primary and secondary heating systems and flues.
Improvement in Energy Efficiency Rating	6	3	N/A	A copy of the Design Stage Energy Performance Certificate Report or SAP 2012 worksheet Pre and Post Refurbishment.
Has the MININ	IUM STANDARD I	peen met?	Yes	
ENE 2				≥70 BREEAM Excellent level requires a minimum EER of 70
ENE 2 Energy Efficiency Rating Post Refurbishment (2 Innovation Credit)	4	2.5		A copy of the Design Stage Energy Performance Certificate Report or SAP 2012 worksheet Post Refurbishment.
ENE 3 Primary Energy Demand	7	3	N/A	A copy of the Design Stage Energy Performance Certificate Report or SAP 2012 worksheet Post refurbishment to confirm the Primary Energy Demand.
				Copy of Design Stage SAP or RdSAP outputs
ENE 4 Renewable Technologies	2	0	N/A	Letter of Commitment stating that the Low or Zero Carbon Technologies meet the requirements defined in Directive 2009/28/EC, are certified under the Microgeneration Certification Scheme and/or are certified under the CHPQA standard
ENE 5 Energy Labelled White Goods	2	2	N/A	White goods to be provided, with the following EU energy efficiency labelling scheme: Fridges and fridge-freezers - A+ rating. Washing machines - A++ rating. Dishwashers - A+ rating. Washer dryers and tumble dryers - A rating.
ENE 6 Drying Space	1	1	N/A	Internal drying space: 1-2 bedrooms will have a 4m+ line length and 3+ bedrooms will have a 6m+ line length. Appropriate ventilation to be provided.
ENE 7 Lighting	2	2	N/A	All external lighting to be energy efficient. All internal lighting to have a maximum average wattage across the total floor area of the dwelling of 9watt/m ² .
ENE 8 Energy Display Devices (1 Innovation Credit)	2	2		Energy Display Devices to show the following: Current Energy Consumption (Watts), Current Emissions (kg CO2), Current Cost, (£ per hour) and Projected Cost (£ per month and £ per year)
ENE 9 Cycle Storage	2	2	N/A	The following number of cycles for 2 credits: • 1 bed unit – 1 space for every other unit • 2 & 3 bed units – 2 spaces per unit • 4 bed units – 4 spaces per unit
ENE 10 Home Office	1	1	N/A	Home office to provide the following services: Openable window of at least 0.5m2 2 double power points telephone point achieve an average daylighting factor of at least 1.5% Wall greater than 1.8m Home office can be located in the following rooms: 1. 1&2 bedroom – living room, any bedroom, or any areas suitable which fulfils the criteria above 2. 3+ bedrooms – any room other than kitchen, living room, master bedroom and bathroom



Section 4	- Wate	er			
Has the MININ	MUM STANDAF	RD been m	et?	Yes	
WAT 1 Indoor Water Use (1 Innovation Credit)	3		2.5		Specifications showing flow rates and volumes for all taps, WC, showers and bath capacity to overflow. Internal water consumption of 96 to < 107 litres/person/day
WAT 2 External Water Use	1		0	N/A	Compliant water butts are being installed in the private/communal gardens.
WAT 3 Water Meter	1		1	N/A	Water meter to be provided to all dwellings - consumption data to be displayed to the occupants.
Section 5	- Mate	erial	S		
MAT 1 Environmental Impact of Materials	25		15	N/A	Specifications and detailed drawings of new and existing materials
Has the MININ	MUM STANDAF	RD been m	et?	Yes	All timber used on the project to be legally harvested and traded timber.
MAT 2 Responsible Sourcing of Materials - Basic Building Elements	12		8	N/A	Principal contractor must source materials in accordance with a documented sustainable procurement plan. Suppliers of materials to have ISO 14001 and ISO 9001 accreditation as a minimum, preferably BES 6001.
MAT3			The insulation index for new insulation used in the building is ≥ 2.		
Insulation	8		8	N/A	Where ≥ 80% of the new thermal insulation used in the building elements is responsibly sourced.



Section 7 - Waste						
WAS 1 Household Waste	2		2	N/A	Internal recycling bins to be provided. Composting facilities to be provided.	
WAS 2 Refurbishment Site Waste Management (+ 1 Innovation Credit)	3		1	Has the Innovation Credit been sought?	Projects £100K and under Checklist A-9 to be completed Pre-refurbishment audit Projects from £300K Site Waste Management Plan.	
				No		
Section 6 - Pollution						
					Make, model and type of primary and secondary heating systems and flues.	
POL 1 NO _x Emissions	3		3	N/A	Three credits where the dry NOx emissions of space heating and hot water systems are ≤ 40 mg/kWh.	
POL 2 Surface Water Run off	3		1		One credit - neutral impact on surface water: Relevant Calculations Drawings showing impermeable areas pre and post refurbishment Confirmation that the drainage consultant is an appropriately qualified professional.	
Has the MINIMUM STANDARD been met? Yes				Yes	Low Flood Risk A copy of the Flood Risk Assessment (FRA)	
POL 3 Flooding	2		2		Medium/High Flood Risk A copy of the FRA Where appropriate, confirmation from an appropriate statutory body confirming reduced annuprobability of flooding due to existing flood defences Detailed documentary evidence of how Checklist A10 has been used to assess the site Flood Resilient Strategy Document Detailed documentary evidence of how the recommendations will be implemented	
Section - I	nnov	ation	1			
INN 1 Innovation	10		0		One innovation credit can be awarded for each individual BREEAM issue exemplary performance level complied with and one innovation credit can be awarded for each innovation application	
A total of 10 credits available					approved by BRE Global	

Appendix D

Energy Performance Summary

ENERGY PERFORMANCE SUMMARY

Introduction

This technical note has been produced by Hodkinson Consultancy, a specialist energy and environmental consultancy for planning and development. It summarises the energy strategy and expected energy performance for the proposed redevelopment at Unit B1 Railshead Road by Mizen Properties in the London Borough of Richmond.

The proposed development comprises the conversion of existing office space on the first floor into six residential dwellings. This note summarises the expected CO₂ performance of the new dwellings compared to policy targets for the development.

Methodology

Representative units have been assessed using Standard Assessment Procedure (SAP 2012) methodology to estimate the energy performance of the proposed dwellings. The results from these calculations have been extrapolated to represent all 6 of the proposed dwellings. The results are compared to a Part L 2013 baseline.

The draft London Plan policy requires that all major developments should target a 10% CO₂ reduction through fabric energy efficiency measures, and an overall on-site 35% CO₂ reduction. These targets are also referenced in the sustainability construction checklist. As this is a minor application, the CO₂ targets do not apply, however, measures will be considered to reduced CO₂ emissions where feasible.

Energy Performance Specification

The energy performance specification for the new residential units has been based on the specification provided by AECOM for the SAP assessments for the other residential dwellings in the building. There are limited opportunities to change the performance of the external elements of the building.

The outline specification for the proposed development is presented in Table 1, below. The sustainability construction checklist has been updated based on these specification details.

Version: 1

Date: 27 August 2020

Author: ER Checked by: ND

Approved by Project Manager: AR



Table 1: Energy Performance Specification							
Element	U-Value / Performance						
External Wall	0.21 W/m²K						
Party Wall	0.00 W/m²K						
Wall to unheated spaces	0.34 W/m²K						
Exposed Floor	0.20 W/m²K (above commercial – halved in SAP to 0.10)						
Window U-Value	1.30 W/m²K (Double Glazing)						
Ventilation	MEV (Specific Fan Power (SFP) - 0.24)						
Target Air Permeability	4.0 m³/hm² @50pa						
Thermal Bridging	Accredited Construction Details (ACDs)						
Space Heating and Hot Water	Individual Gas Combi Boiler – Efficiency 89%						
Lighting	100% Low Energy Lighting						
Solar PV	21 kWp (approximately 0.55 kWp per dwelling)						

Table 2, below, shows the estimated CO₂ reduction for the 6 new proposed units, based on the specification above. This is broken down between the stages of the London Plan Energy Hierarchy *Be Lean*, *Be Clean* and *Be Green*.

As it is only mid floor units that have been assessed, it is not estimated what the whole building block compliance would be. It is expected that top floor dwellings and dwellings of different orientations would compensate for lower performance of mid floor flats. This is not shown in these calculations.

As it is an existing building, it would be costly to retrofit improvements to the external fabric elements of the building. Additionally, individual gas boilers are in place for the existing residential dwellings, therefore it is not feasible to install a communal heating system to the current existing design. Therefore, individual gas boilers are also proposed for these units.

It has been noted that a PV array of 21 kWp has been installed on the building, and there is limited space to increase this PV array. The CO_2 reductions are calculated on the assumption that this is split equally between all residential dwellings in the building. The whole building block compliance has not been calculated in this assessment.

Version: 1

Date: 27 August 2020

Author: ER Checked by: ND

Approved by Project Manager: AR



Table 2: Residential Carbon Dioxide Emissions and Savings after each stage of the Energy Hierarchy							
Stage	Carbon Dioxide Emissions (Tonnes CO ₂ per Annum)						
	Regulated	Unregulated					
Baseline: Part L 2013 Compliant Development	9	-					
After Be Lean Measures	9	9					
After Be Clean Measures	9	9					
After Be Green Measures	8	9					
Stage	Regulated Carbon Dioxide Savings						
	Tonnes CO₂ per Annum	Percentage					
Savings from Be Lean Measures	0	0.2%					
Savings from Be Clean Measures	0	0.0%					
Savings from Be Green Measures	1	14.7%					
Cumulative On-Site Savings	1	14.9%					

Summary

The proposed development at Unit B1 Railshead Road by Mizen Properties comprises the conversion of existing office space on the first floor into six residential dwellings. The energy performance strategy is based on the specification of the existing building. The estimated CO_2 reduction falls short of London Plan targets, however, as it is a minor application, and a conversion of an existing building there are limited opportunities to improve the performance of the external fabric elements. Additionally, only the 6 new residential dwellings on the first floor have been assessed and the overall block performance of the building is not known. A good reduction in CO_2 emissions has been shown despite these limitations.

Version: 1

Date: 27 August 2020

Author: ER Checked by: ND

Approved by Project Manager: AR

