

# Doubletree by Hilton, West End

Sustainability Report

Revision 1

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# Delta Green Environmental Design

Integrated Sustainable Solutions

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#### 1.0 Introduction

The proposed development at Doubletree by Hilton, West End London involves the extension of the existing hotel to provide a total of 31no new hotel guestrooms. The existing hotel currently has a number of duplex suites occupying the top two floors of the North easterly block along Old Gloucester Street. These are to be demolished, with two new levels constructed above the existing fourth floor level. This block currently links back into the Southampton Row block at fourth floor level, and so this link will also be increased in height by two floors so that the new fifth and sixth floors can be accessed from the corresponding floors on the other side of the hotel. The extension will be limited to these areas, with no external works or alterations to the hotel below. The new floors will comprise solely guestrooms and circulation, with no new facilities located at these levels.

It is understood that the Camden Council Development Policies Adoption DP22 currently requires non-domestic new construction projects over 500sqm to achieve BREEAM certification to a 'Very Good' rating. Whilst the proposed extension falls below this area threshold, it is considered possible that a BREEAM assessment of the proposed development will be required to demonstrate compliance with the BREEAM standard and local planning policy. The building design is to be developed with sustainability issues being a key driver, and therefore a high BREEAM rating should be achieved upon completion of a full BREEAM assessment.

The urban context of the existing building and the limited extent of the proposed extension create a number of design constraints, which will make a BREEAM Excellent rating challenging to achieve. However, the design team are committed to including a variety of sustainability features to target a Very Good rating with the highest possible score. The project team will fully consider all sustainability issues throughout the design and construction process in order to maximise the inclusion of these features and practices wherever possible. A robust BREEAM Very Good rating would indicate a high level of consideration to sustainability, helping to mitigate the impact of the development on both the local and wider environment. Such issues will be a key driver during the design and construction process.

An initial BREEAM workshop was held on site with the design team on 25<sup>th</sup> November 2015. The primary purpose of this session was to determine the maximum BREEAM rating that could be achieved should a full assessment be completed and to advise the project team of any BREEAM related considerations at this early stage. The review has also allowed any issues that are programme dependant or that could affect the planning process to be identified.

Following the workshop a review of the proposals has been undertaken by a licensed BREEAM assessor against the BREEAM New Construction 2014 Other Buildings – Residential Institutions criteria. This assessment method is considered to be the most appropriate for the development. This review has been based upon initial discussions with the design team and preliminary drawings issued by Morrison Design Chartered Architects. From the initial review against the current BREEAM criteria it is believed that a potential rating of Very Good is achievable. The BREEAM New Construction 2014 manual states that achieving a Very Good rating broadly represents performance equivalent to the top 25% of UK new non-domestic buildings and demonstrates advanced good practice in terms of sustainable construction.



#### 2.0 BREEAM

#### 2.1 BREEAM

The BRE's Environmental Assessment Method (BREEAM) is the world's leading assessment tool to evaluate the sustainability of buildings. BREEAM covers a range of subjects, which are collated into nine environmental sections that are weighted based on their environmental value. These are:

Management	12%
Health and Wellbeing	15%
Energy	15%
Transport	9%
Water	7%
Materials	13.5%
Waste	8.5%
Land Use & Ecology	10%
Pollution	10%

Innovation up to additional 10%

Each environmental section is then broken down into individual issues, which are allocated credits that can be awarded for compliance with the issue criteria. These credits achieved within each environmental section are multiplied by the section weighting and then summed, resulting in a BREEAM score. The BREEAM rating benchmarks are as follows:

Outstanding	85%	[less than top 1% of UK new build non-domestic =innovator]
Excellent	70%	[top 10% of UK new build non-domestic = best practice]
Very Good	55%	[top 25% of UK new build non-domestic = advanced good practice]
Good	45%	[top 50% of UK new build non-domestic = intermediate good practice]
Pass	30%	[top 75% of UK new build non-domestic = standard good practice]
Unclassified	<30%	

### 2.2 Pre-assessment Score

In accordance with Camden Council planning policy it is understood that full BREEAM certification of the development may be required prior to occupation. The assessment will therefore be registered with the BRE against the 2014 New Construction method for Other Buildings (residential institutions) – Hotels. The pre-assessment has been completed for the proposed development based on design intent. The criteria are assessed as fully fitted, which assumes that there will be no additional fit out under a separate contract. The BREEAM pre-assessment score of 57.18% achieves a Very Good rating, with all mandatory requirements met. Figure 1 shows the distribution of credits targeted out of those available within the pre-assessment.



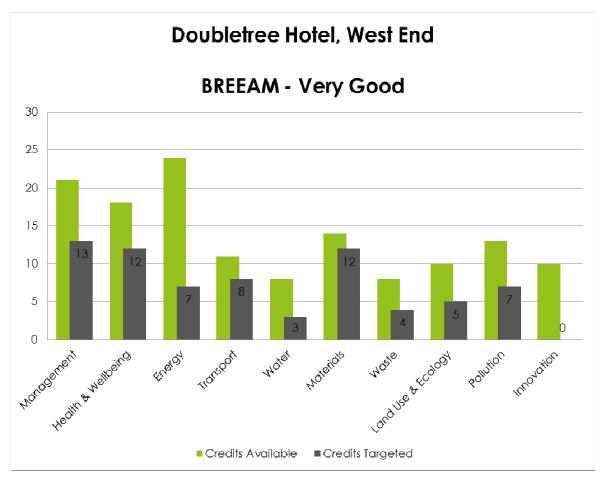


Figure 1 Illustration of BREEAM credits achievable for the proposed development

#### 2.3 BREEAM Pre-assessment Summary

The following provides a summary of the sustainability considerations that will be adopted, which will allow the target BREEAM rating to be achieved.

## Management

13 of the 21 available management credits have been targeted within the pre-assessment, which is 61.9% of available credits and contributes 7.4% to the overall score.

During the feasibility stages of the project the project delivery team will meet to discuss their roles, responsibilities and contributions during each phase of the programme. This consultation with the delivery team will allow all parties to fully understand the brief, with the aim to procure a building that is fit for purpose. Any training for the FM team/occupants that is identified will be scheduled and this training schedule will be handed over to the client.



The successful contractor will be required under the contract to register with the Considerate Constructors Scheme and achieve a 'Beyond Best Practice' score greater than 35, with no less than 7 in each section. They will also be committed to monitor site energy, monitor water consumption, monitor delivery and waste vehicle movements and responsibly source all temporary site timber used to facilitate construction. The successful contractor must also operate an Environmental Management System (EMS) that is certified to ISO14001 or equivalent standard.

The new heating/cooling VRV system, air handling plant and electrical services within the extension shall be commissioned by an appropriate person(s) to the required CIBSE and BSRIA Codes, which will ensure the building services are operating efficiently and as the occupants require. Any commissioning will be monitored by a member of the design team, and the commissioning schedule will be accounted for within the main programme of works. The VRV system and AHU in particular will be commissioned by a specialist to ensure that these are commissioned correctly. All systems will be re-commissioned seasonally over a 12 month period to make sure that they have been correctly calibrated to effectively deliver the required loads, and feedback from staff members and guests will be collated to identify any issues that arise from handover.

The building fabric will also be commissioned by way of a thermographic survey. This survey will confirm the continuity of the fabric insulation and will identify any issues relating to thermal bridging or unintentional infiltration.

A non-technical building user guide will be produced that provides an overview of the energy efficient design features of the building, simple instructions for how to use the systems, information on how to save energy and further information about the site and surroundings. This Building User Guide will be handed over to the hotel FM team to allow them to operate the new services in the most appropriate manner.

Within the tender documentation the successful contractor will be required to provide an aftercare service by facilitating any identified training, by being on site at least once a week for the first few weeks after handover and by being contactable if there are any issues within the first 12 months of occupation. This will avoid the delivery of a building that does not meet the client's expectations.

### Health & Wellbeing

12 of the 18 available health and wellbeing credits have been targeted within the pre-assessment, which is 66.7 % of available credits and contributes 10.0% to the overall score.

Where required, all guest rooms within the hotel extension will have blinds installed on the windows, which can be operated by occupants to effectively control glare. Lighting to all occupied areas will meet Lux levels recommended by CIBSE guidelines and any fluorescent lamps that are specified will be high frequency to reduce the effects of Sick Building Syndrome.

The new guest rooms will be designed to maximise daylight levels internally. The daylight levels will be determined using specialist software to calculate Average Daylight Factors. These rooms will also be designed to provide occupants with a view out of a window to avoid eye strain when working with computer screens.



Due to the amount of glazing and relatively small room size the solar gain within these could be considerable. Whilst this is beneficial during the winter months, it may pose an overheating risk during the summer. Thermal modelling of the occupied areas will therefore be undertaken to assess the likely peak heating and cooling loads within each room, and the systems will be sized appropriately to meet these loads. This assessment will include modelling with predicted future weather data to allow for a climate change scenario, which will ensure that the overheating risk remains low in years to come. The findings of this assessment will inform the control strategy and system sizing where relevant.

It is a Hilton standard that sound insulation levels between guest rooms significantly improve upon Building Regulations standards, and an acoustic consultant will be appointed to confirm that airborne and impact sound insulation levels between guest rooms achieve at least 8dB improvement. A programme of pre-completion testing will be carried out to confirm that these levels are realised.

### Energy

7 of the 24 available energy credits have been targeted within the pre-assessment, which is 29.2% of available credits and contributes 4.4% to the overall score.

The new extension will be designed and constructed with a 'fabric first' approach, using a combination of low uvalues and low levels of adventitious air leakage to minimise the heating load. Passive design measures will be fully considered and implemented where possible.

The M&E strategy proposed includes a split VRV system providing heating/cooling, mechanical ventilation with heat recovery and connection to the existing high efficiency water boiler for hot water. This approach offers a strategy that both minimises the energy demand of the extension and delivers this in a highly efficient way. These measures will all contribute to an overall reduction in CO<sub>2</sub> emissions, which will allow the mandatory BREEAM requirement to be met. The heating system, hot water, ventilation system and the lighting/small power will all be separately metered to allow energy uses to be effectively monitored and managed.

A new lift will be installed within an existing lift shaft as part of the proposals. This will be energy efficient with a number of low energy features included. The lift will be selected based upon the findings of an energy analysis against different lift strategies to ensure that the lowest energy option is selected.

### **Transport**

8 of the 11 available transport credits have been targeted within the pre-assessment, which is 72.7% of available credits and contributes 6.5% to the overall score.

Due to the site's central London location the local public transport network provides a large number of transport services for the staff and guests to use. The site is also in close proximity to a number of local amenities, which will enable staff to walk when carrying out errands during breaks rather than using vehicles.

Although cycle storage is not currently included within the proposed design, the design team are reviewing this to determine whether a solution could be provided at basement level. If possible covered cycle storage spaces will



be provided on site for guests and staff to use, and showers and changing facilities will be provided internally for staff to use. This will promote cycling to the site rather than using cars or public transport.

#### Water

3 of the 8 available water credits have been targeted within the pre-assessment, which is 37.5% of available credits and contributes 2.6% to the overall score.

Due to the nature of the proposed extension the water consumption will be high compared to many other building types, and with this in mid it is important to effectively control the amount of water used. The Hilton standard specification stipulates the use of aerated taps/showers and dual flush WCs and so water consumption will be kept to a minimum by installing these low water consuming sanitary fittings. Due to the constraints of the site a rainwater collection system is not viable.

The incoming water supply to the new upper floors will be metered by a pulsed output meter, which will allow the water consumption within these areas to be effectively monitored and managed. It is understood that the water to the new rooms will be secondary, having first passed through a water softener and storage tank, however the feed from this tank will be metered, and if this is not possible the incoming meter to the hotel will be upgraded to a pulse output meter.

#### **Materials**

12 of the 14 available material credits have been targeted within the pre-assessment, which is 85.7 % of available credits and contributes 11.6% to the overall score.

The specific construction method of the new rooms has not yet been finalised, and so there is an opportunity to consult the BRE Green Guide to Specification when selecting construction materials, Therefore, it is anticipated that all materials selected for construction will be A or A+ rated in the BRE Green Guide, demonstrating they have low life cycle embodied energy. This will mitigate the environmental impact of the materials used within construction. As no new hard surfaces or boundary protection will be installed all existing surfaces and boundary walls/fences will automatically achieve a Green Guide A+ rating.

The successful contractor shall be required to responsibly source the majority of construction materials from suppliers capable of providing the relevant Environmental Management System (EMS) certificate. In addition to this, the contractor will implement a sustainable procurement plan, which will include policies and procedures to avoid inefficient ordering and use of materials.

All of the insulation specified for the building fabric and building services will have a high Green Guide rating and high thermal performance. These will be certified under BES6001 or ISO14001 (or equivalent) at both supply chain stage and key process stage wherever possible to ensure that the insulation products used have a minimal environmental impact.

The specification for the materials will have considered the robustness required for the vulnerable areas of the new floors. The durability will be considered to allow more hard wearing materials to be specified where required. This



will protect areas deemed to be at risk, and will ensure the materials used within vulnerable areas are not frequently replaced due to wear, unnecessarily increasing waste from the building.

#### Waste

4 of the 8 available waste credits have been targeted within the pre-assessment, which is 50.0% of available credits and contributes 4.3% to the overall score.

As the preparation of the building will involve the demolition of the existing duplex rooms the contractor will be required to produce a pre-demolition audit to determine if any of the materials from the demolition are recoverable. This will be referenced within a site waste management plan, which will also include a waste target of less than 3.2 tonnes of construction waste per 100sqm gross internal floor area of new build. In addition to this at least 80% of non-demolition waste and 90% of demolition waste by weight will be diverted from landfill.

The proposed site is in a central urban location with a number of constraints, one of which is the lack of external space available. Notwithstanding this, the existing hotel has a large refuse store, in which a dedicated space for recycling waste will be allocated. This will be clearly labelled to differentiate the recyclable storage area from the general waste. The space will be sufficiently sized to accommodate the waste streams from the whole building.

### Land Use & Ecology

5 of the 10 available land use and ecology credits have been targeted within the pre-assessment, which is 50.0% of available credits and contributes 5.0% to the overall score.

The proposed development involves the demolition of two upper levels of the existing hotel and construction of two new levels in their place. As there will be no external works there will be no ecology displaced as a result of the proposals. Although unlikely, if any areas on site are considered to require protection then appropriate measures will be adopted during the construction phase by the contractor.

Where necessary, the contractor will minimise the impact of the construction process on any local wildlife and monitor the effectiveness of any measures adopted in line with the recommendations of the ecologist.

Due to the urban location of the site and the lack of existing ecology the overall impact of the development on site ecology will be negligible.

#### **Pollution**

7 of the 13 available pollution credits have been targeted within the pre-assessment, which is 53.8% of available credits and contributes 5.4% to the overall score.

The proposed heating and cooling strategy is a split VRV system, otherwise known as an air source heat pump. This systems utilises high global warming potential refrigerants, and it is important to reduce the risk of these refrigerants escaping to the environment. A refrigerant leak detection system will be installed to detect potential



leaks within each of the rooms, which will include the facility to automatically pump down and store refrigerants upon detection of a leak.

Whilst there is clearly no risk of flooding within the new upper floors, it is important to avoid developing buildings/sites where flooding could occur. The site has been found to be in a low flood risk area, and a site specific flood risk assessment will be provided to demonstrate this. The impact on local drainage systems has also been fully considered. As the impermeable area of the site will not increase from development the run-off from the site into the drains will not increase. A consultant will be appointed to provide calculations demonstrating that this is the case during a peak rainfall event.

The only new external lighting that will be installed 'within the construction zone' is emergency lighting and space lighting for maintenance of the roof level plant, both of which will be used infrequently. Despite this, the lighting will be designed to minimise the risk of light pollution, with the design following guidance published by the Institute of Lighting Professionals.

There is currently a significant quantity of plant located at roof level, which will be relocated and added to during the project. In order to confirm that this plant relocation and increase in capacity will not pose a risk of noise pollution to neighbouring properties an acoustic consultant will undertake a noise impact assessment. Noise pollution is not considered to be a concern due to the background noise levels associated with a city centre site, however in the unlikely event that noise levels from the plant are unacceptable acoustic attenuation will be provided.

### 3.0 Conclusion

The proposed new development at Doubletree by Hilton, West End has been designed to minimise the environmental impact it has and maximise its sustainability. A number of sustainable features will be incorporated into the design to achieve this.

The proposed design has been assessed against BREEAM New Construction 2014 criteria for Other Buildings (residential institutions) – Hotels. The predicted BREEAM score of 57.18% demonstrates that a robust Very Good rating will be achieved when the full assessment is undertaken. The minimum score required to achieve a Very Good rating is 55%, and therefore the proposed score allows an additional 12.18% over this threshold score to allow for any unforeseen short fall during the assessment process.

The pre-assessment also demonstrates that the local planning policy requirement for a BREEAM Very Good rating will be adhered to.



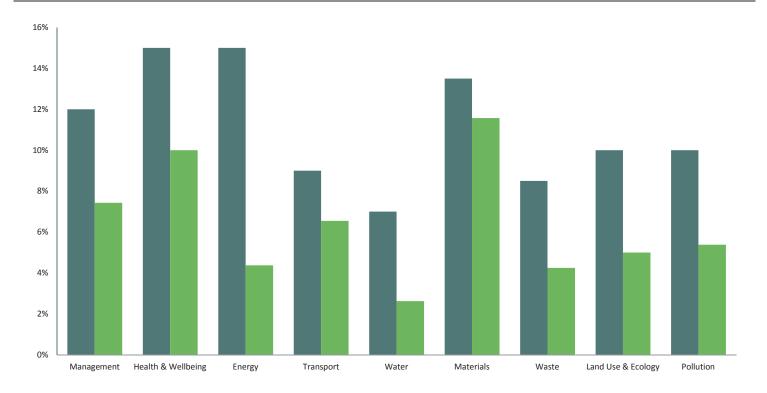
4.0 Appendix – Pre-assessment



### **Overall Building Performance**

Building name	Doubletree by Hilton, West End
Indicative BREEAM rating	Very Good
Indicative Total Score	57.2%
Min. standards level achieved	Very Good level

### **Building Performance by Environment Section**



■ Section score available

■Section score achieved

	No. credits	indicative no.	% credits	Section	indicative
Environmental Section	available	credits Achieved	achieved	Weighting	Section Score
Management	21	13	61.9%	12.0%	7.4%
Health & Wellbeing	18	12	66.7%	15.0%	10.0%
Energy	24	7	29.2%	15.0%	4.4%
Transport	11	8	72.7%	9.0%	6.5%
Water	8	3	37.5%	7.0%	2.6%
Materials	14	12	85.7%	13.5%	11.6%
Waste	8	4	50.0%	8.5%	4.3%
Land Use & Ecology	10	5	50.0%	10.0%	5.0%
Pollution	13	7	53.8%	10.0%	5.4%
Innovation	10	0	0.0%	N/A	0



# BREEAM UK New Construction 2014 Pre-Assessment Estimator: Assessment Issue Scoring



	Building name Building score (%) Building rating Minimum standards level achieved	Very Good	on, West End			
MANAGEMENT						
Man 01 Project brief and	l design					
	No. of BREEAM credits available  No. of BREEAM innovation credits available				ution to overall score standards applicable	2.29% No
Assessment Criteria	Will stakeholder consultation (project de Will stakeholder consultation (third Will a sustainability champion (de Will a sustainability champion (monitoring prog	party) take place? sign) be assigned? ress) be assigned?	Compliant? Yes No No No	Credits available  1 1 1 1 1	Credits achieved  1 0 0 0	
	Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved Minimum standard(s) level	0.57% 0				
Man 02 Life cycle cost ar	nd service life planning					
	No. of BREEAM credits available No. of BREEAM innovation credits available				ution to overall score standards applicable	2.29% No
Assessment Criteria						
	Will an elemental life cycle cost (LCC)analys Will a component level LCC pl Will the predicted capital Expected capital cost of the pr Total BREEAM credits achieved Total contribution to overall building score	lan be developed? cost be reported? roject (if available)	Compliant? No No No	Credits available  2  1  1 £/m²	Credits achieved 0 0 0	
Comments/notes:	Will a component level LCC pl Will the predicted capital Expected capital cost of the pr Total BREEAM credits achieved	lan be developed? cost be reported? roject (if available)  0 0.00% N/A	No No	2 1 1	0	



# Man 03 Responsible construction practices

No. of BREEAM innovation credits available 1 ssessment Criteria Is all site timber used in the project 'legally harvested and traded timber'?		Minimum	standards applicable	Yes
				103
	C1:+2	Cua dita available	Conditonalismad	
is all site timber used in the project legally harvested and traded timber?	Compliant?	Credits available	Credits achieved	
	Yes			
Vill/does the principal contractor operate a compliant Environmental Management System?	Yes	1	1	
Will a construction stage sustainability champion be assigned?	Yes	1	1	
Will a considerate construction scheme be used by the principal contractor? (One credit where 'compliance' has been achieved. Two credits where 'compliance' is significantly exceeded.)	2	2	2	
Will construction site impacts be metered/monitored?	Yes			
Will site utility consumption be metered/monitored?	Yes	1	1	
Will transport of construction materials and waste be metered/monitored?	Yes	1	1	
Will exemplary level criteria be met?	No	1	0	
ey Performance Indicators: Construction site energy use				
Energy consumption (total) - site processes		Information not a	ailable at design stage	
Energy consumption (total) - site processes  Energy consumption (intensity) - site processes			ailable at design stage	
Distance (total) - materials transport to site		i	ailable at design stage	
Distance (total) -waste transport from site			ailable at design stage	
Energy consumption (total) - materials transport to site		Information not av	ailable at design stage	
Energy consumption (total) - waste transport from site			ailable at design stage	
Energy consumption (intensity) - materials transport to site			ailable at design stage	
Energy consumption (intensity) - waste transport from site		Information not av	ailable at design stage	
ey Performance Indicators: Construction site greenhouse gas emissions				
Process greenhouse gas emissions (total) - site processes		Information not av	ailable at design stage	
Greenhouse gas emissions (intensity) - site processes		Information not av	ailable at design stage	
Greenhouse gas emissions (total) - materials transport to site		Information not av	ailable at design stage	
Greenhouse gas emissions (total) - waste transport from site			ailable at design stage	
Greenhouse gas emissions (intensity) - materials transport to site		i	ailable at design stage	
Greenhouse gas emissions (intensity) - waste transport from site		Information not av	ailable at design stage	
ey Performance Indicators: Construction site use of freshwater resources		_		
Use of freshwater resource (total) - site processes			ailable at design stage	
Use of freshwater resource (intensity) - site processes		Information not av	ailable at design stage	
Total BREEAM credits achieved 6				
Total contribution to overall building score 3.43%				
Total BREEAM innovation credits achieved 0				
Minimum standard(s) level Outstanding level				
withintian standard(s) level				
omments/notes:				
,				

### Man 04 Commisioning and handover

n 04 Commisioning and handover					
No. of BREEAM credits available	4		Available contribu	ution to overall score	2.29%
No. of BREEAM innovation credits available	0		Minimum	standards applicable	Yes
ssessment Criteria		Compliant?	Credits available	Credits achieved	
Will commissioning schedule and responsibilities be developed 8		Yes	1	1	
Will a commissioning manage		Yes	1	1	
Will the building fabric be Will a training schedule for building occupiers/manage		Yes Yes	1	1	
Will a building user guide be developed pri		Yes	1	1	
- 1005511 P. 11 1					
Total BREEAM credits achieved  Total contribution to overall building score	2.29%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level					
mments/notes:					
an 05 Aftercare					
an 05 Aftercare					
an 05 Aftercare No. of BREEAM credits available	3			ution to overall score	1.71%
	3			ution to overall score	1.71% Yes
No. of BREEAM credits available					
No. of BREEAM credits available No. of BREEAM innovation credits available			Minimum	standards applicable	
No. of BREEAM credits available  No. of BREEAM innovation credits available sessment Criteria	1	Compliant?	Minimum Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available Sessment Criteria Will aftercare support be provided to bui	1 ilding occupiers?	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  sessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar	1 ilding occupiers? ntially occupied?	Yes Yes	Minimum  Credits available  1 1	Credits achieved	
No. of BREEAM credits available No. of BREEAM innovation credits available Sessment Criteria Will aftercare support be provided to bui	1 ilding occupiers? ntially occupied? fter occupation?	Yes	Minimum  Credits available	Credits achieved	
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No. of BREEAM credits available  No. of BREEAM innovation credits available  Seessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar  Will a post occupancy evaluation be carried out 1 year at  Will exemplary level  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	ilding occupiers? ntially occupied? fter occupation? criteria be met?  2 1.14% 0	Yes Yes No	Credits available  1 1 1	Credits achieved  1 1 0	
No. of BREEAM credits available  No. of BREEAM innovation credits available  Seessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar  Will a post occupancy evaluation be carried out 1 year at  Will exemplary level  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	ilding occupiers? ntially occupied? fter occupation? criteria be met?  2 1.14% 0	Yes Yes No	Credits available  1 1 1	Credits achieved  1 1 0	
No. of BREEAM credits available  No. of BREEAM innovation credits available  Seessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar  Will a post occupancy evaluation be carried out 1 year at  Will exemplary level  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	ilding occupiers? ntially occupied? fter occupation? criteria be met?  2 1.14% 0	Yes Yes No	Credits available  1 1 1	Credits achieved  1 1 0	
No. of BREEAM credits available  No. of BREEAM innovation credits available  Seessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar  Will a post occupancy evaluation be carried out 1 year at  Will exemplary level  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	ilding occupiers? ntially occupied? fter occupation? criteria be met?  2 1.14% 0	Yes Yes No	Credits available  1 1 1	Credits achieved  1 1 0	
No. of BREEAM credits available  No. of BREEAM innovation credits available  Seessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar  Will a post occupancy evaluation be carried out 1 year at  Will exemplary level  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	ilding occupiers? ntially occupied? fter occupation? criteria be met?  2 1.14% 0	Yes Yes No	Credits available  1 1 1	Credits achieved  1 1 0	
No. of BREEAM credits available  No. of BREEAM innovation credits available  Seessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar  Will a post occupancy evaluation be carried out 1 year at  Will exemplary level  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	ilding occupiers? ntially occupied? fter occupation? criteria be met?  2 1.14% 0	Yes Yes No	Credits available  1 1 1	Credits achieved  1 1 0	
No. of BREEAM credits available  No. of BREEAM innovation credits available  Seessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar  Will a post occupancy evaluation be carried out 1 year at  Will exemplary level  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	ilding occupiers? ntially occupied? fter occupation? criteria be met?  2 1.14% 0	Yes Yes No	Credits available  1 1 1	Credits achieved  1 1 0	
No. of BREEAM credits available  No. of BREEAM innovation credits available  Seessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar  Will a post occupancy evaluation be carried out 1 year at  Will exemplary level  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	ilding occupiers? ntially occupied? fter occupation? criteria be met?  2 1.14% 0	Yes Yes No	Credits available  1 1 1	Credits achieved  1 1 0	
No. of BREEAM credits available  No. of BREEAM innovation credits available  Seessment Criteria  Will aftercare support be provided to bui  Will seasonal commissioning occur over 12months once substar  Will a post occupancy evaluation be carried out 1 year at  Will exemplary level  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	ilding occupiers? ntially occupied? fter occupation? criteria be met?  2 1.14% 0	Yes Yes No	Credits available  1 1 1	Credits achieved  1 1 0	



# HEALTH & WELLBEING

# Hea 01 Visual Comfort

No. of BREEAM credits available	4	Available contribution to overall score	3.33%
No. of BREEAM innovation credits available	1	Minimum standards applicable	No

Assessment Criteria	Compliant?	Credits available	Credits achieved
Will the design provide adequate glare control for building users?	Yes	1	1
Will relevant building areas be designed to achieve appropriate daylight factor(s)?	1	1	1
Will the design provide adequate view out for building users?	Yes	1	1
Will internal/external lighting levels, zoning and controls be specified in accordance with the relevant CIBSE Guides/British Standards?	Yes	1	1
Will exemplary level criteria be met?	No	1	0

4	Total BREEAM credits achieved
3.33%	Total contribution to overall building score
0	Total BREEAM innovation credits achieved
N/A	Minimum standard(s) level

	Minimum standard(s) level	N/A
Comments/notes:		
1		

Hea 02 Indoor Air Quality

No. of BREEAM innovation credits available 2		Available contribl	ution to overall score	4.17%
		Minimum	standards applicable	No
ssessment Criteria	Compliant?	Credits available	Credits achieved	
Will an air quality plan be produced and building designed to minimise air pollution		1	0	
lill building be designed to minimise the concentration and recirculation of pollutants in th/ building	No.	1	0	
Will the relevant products be specified to meet the VOC testing and emission level	NO.	1	0	
required Will formaldehyde and total VOC levels be measured post construction		1	0	
Will the building be designed to, or have the potential to provide, natural ventilation	? No	1	0	
Will exemplary level VOCs (products)criteria be met	?			
ey Performance Indicators: Indoor air quality				
Concentration levels of formaldehyd			railable at design stage	
Total volatile organic compound (TVOC) concentration	INA	Information not av	ailable at design stage	
Total BREEAM credits achieved 0				
Total contribution to overall building score 0.00%  Total BREEAM innovation credits achieved 0				
Minimum standard(s) level N/A				
omments/notes:				
ea 03 Safe containment in laboratories			Assessment issue	e not applic
ea 03 Safe containment in laboratories  No. of BREEAM credits available  N/A		Available contribu	Assessment issue	e not applic
No. of BREEAM credits available N/A No. of BREEAM innovation credits available N/A		Minimum	ution to overall score standards applicable	N/A
No. of BREEAM credits available N/A  No. of BREEAM innovation credits available N/A  ssessment Criteria	Compliant?		ution to overall score	N/A
No. of BREEAM credits available  No. of BREEAM innovation credits available  N/A  ssessment Criteria  Will an objective risk assessment of proposed laboratory facilities' design be completed	?	Minimum	ution to overall score standards applicable	N/A
No. of BREEAM credits available  No. of BREEAM innovation credits available  N/A  Seessment Criteria  Will an objective risk assessment of proposed laboratory facilities' design be completed  Will the manufacture & installation of fume cupboards and containment devices meet besure.	t t	Minimum	ution to overall score standards applicable	N/A
No. of BREEAM credits available  N/A  No. of BREEAM innovation credits available  N/A  ssessment Criteria  Will an objective risk assessment of proposed laboratory facilities' design be completed  Will the manufacture & installation of fume cupboards and containment devices meet bespractice standards	t t ?	Minimum	ution to overall score standards applicable	N/A
No. of BREEAM credits available  No. of BREEAM innovation credits available  N/A  Seessment Criteria  Will an objective risk assessment of proposed laboratory facilities' design be completed  Will the manufacture & installation of fume cupboards and containment devices meet besure.	t t ?	Minimum	ution to overall score standards applicable	N/A
No. of BREEAM credits available  No. of BREEAM innovation credits available  N/A  No. of BREEAM innovation credits available  N/A  ssessment Criteria  Will an objective risk assessment of proposed laboratory facilities' design be completed  Will the manufacture & installation of fume cupboards and containment devices meet best practice standards  Will containment level 2 & 3 labs meet best practice safety & performance criteria  Total BREEAM credits achieved  N/A	t t ?	Minimum	ution to overall score standards applicable	N/A
No. of BREEAM credits available  No. of BREEAM innovation credits available  N/A  Sssessment Criteria  Will an objective risk assessment of proposed laboratory facilities' design be completed  Will the manufacture & installation of fume cupboards and containment devices meet bespractice standards  Will containment level 2 & 3 labs meet best practice safety & performance criteria  Total BREEAM credits achieved  N/A  Total contribution to overall building score	t t ?	Minimum	ution to overall score standards applicable	N/A
No. of BREEAM credits available  No. of BREEAM innovation credits available  N/A  No. of BREEAM innovation credits available  N/A  ssessment Criteria  Will an objective risk assessment of proposed laboratory facilities' design be completed  Will the manufacture & installation of fume cupboards and containment devices meet best practice standards  Will containment level 2 & 3 labs meet best practice safety & performance criteria  Total BREEAM credits achieved  N/A	t t ?	Minimum	ution to overall score standards applicable	N/A

Assessment Criteria Compliant? Credits available Credits achieved



Will thermal modelling of the design be carried out?	Yes	1	1
Will the building design be adapted for a projected climate change scenario?	Yes	1	1
Will the modelling inform the development of a thermal zoning and control strategy?	Yes	1	1

Predicted Percentage I.	Dissatisfied (PPD)	INA	
Total BREEAM credits achieved	3		
Total contribution to overall building score	2.50%		
Total BREEAM innovation credits achieved	N/A		
Minimum standard(s) level	N/A		
nments/notes:			
intents/notes.			



### Hea 05 Acoustic Performance

ea 05 Acoustic Performance					
No. of BREEAM credits available	4		Available contrib	ution to overall score	3.33%
No. of BREEAM innovation credits available	0		Minimum	standards applicable	No
ssessment Criteria		Credits	Credits available	Credits achieved	
Will the building meet the appropriate acoustic performance sta					
	requirements for:  Sound insulation	4	4	4	
	mbient noise level	4	4	4	
c. Rev	verberation times?				
# . I pp. 19 19 19 19 19 19 19 19 19 19 19 19 19					
Total BREEAM credits achieved  Total contribution to overall building score					
Total BREEAM innovation credits achieved					
Minimum standard(s) level					
omments/notes:					
ea 06 Safety and Security					
ea 06 Safety and Security  No. of BREEAM credits available	2		Available contrib	ution to overall score	1.67%
				ution to overall score	1.67% No
No. of BREEAM credits available					
No. of BREEAM credits available		Compliant?			
No. of BREEAM credits available No. of BREEAM innovation credits available	0		Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available ssessment Criteria  Where external site areas are present, will safe access be designed for	0 or pedestrians and cyclists?	Compliant? Yes	Minimum	standards applicable	
No. of BREEAM credits available No. of BREEAM innovation credits available ssessment Criteria	0 or pedestrians and cyclists? rity considerations		Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available ssessment Criteria  Where external site areas are present, will safe access be designed for	0 or pedestrians and cyclists?	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available ssessment Criteria  Where external site areas are present, will safe access be designed for	or pedestrians and cyclists? rity considerations accounted for?	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score	or pedestrians and cyclists? rity considerations accounted for?	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  Where external site areas are present, will safe access be designed for will a suitably qualified security consultant be appointed and secu  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	or pedestrians and cyclists? rity considerations accounted for?  1 0.83% N/A	Yes	Minimum  Credits available	Credits achieved	



### **ENERGY** Ene 01 Reduction of energy use and carbon emissions No. of BREEAM credits available 12 Available contribution to overall score 7.50% No. of BREEAM innovation credits available 5 Minimum standards applicable Yes How do you wish to assess the number of BREEAM credits achieved for this issue? Define a target number of BREEAM credits achieved Select the target number of BREEAM credits for the Ene01 issue: Ene 01 Calculator Confirm building regulation and Country of the UK where the building is located version to be used: New Construction (Fully fitted) Building floor area MJ/m2yr Notional building heating and cooling energy demand Actual building heating and cooling energy demand MJ/m2yr kWh/m2yr Notional building primary energy consumption Actual building primary energy consumption kWh/m2yr Target emission rate (TER) kgCO2/m2yr Building emission rate (BER) kgCO2/m2yr Building emission rate improvement over TER Heating & cooling demand energy performance ratio (EPR<sub>ED</sub>) Primary consumption energy performance ratio (EPR<sub>PC</sub>) CO<sub>2</sub> Energy performance ratio (EPR<sub>CO2</sub>) Overall building energy performance ratio (EPR<sub>NC</sub>) Where specified, please confirm the energy production from onsite or near site energy generation technologies Equivalent % of the building's 'regulated' energy consumption generated by carbon neutral sources and used to meet energy demand from 'unregulated' building systems or processes? Is the building designed to be 'carbon negative'? If the building is defined as 'carbon negative' what is the total (modelled) renewable/carbon neutral energy generated and exported: Total BREEAM credits achieved Total contribution to overall building score 0.00% Total BREEAM innovation credits achieved 0 Minimum standard(s) level Very Good level Comments/notes:



# Ene 02 Energy monitoring

<u> </u>	No. of BREEAM credits available	1		Available contribu	ition to overall score	0.63%
	No. of BREEAM innovation credits available	0		Minimum	standards applicable	Yes
occoment oritaria			Compliants	Crodita	Cradita ashisasad	
sessment criteria	ers be specified to monitor energy use from majo	ar huilding comisos	Compliant?	Credits available	Credits achieved	
Will a Bivis or sub-met	ers be specified to monitor energy use from majo	or building services systems?	Yes	1	1	
Will a BMS or sub-me	ters be specified to monitor energy use by tenan					
		areas?				
	Total BREEAM credits achieved	1				
	Total contribution to overall building score					
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	Outstanding level				
omments/notes:						
circs/ iloccoi						
ne 03 External lighting						
ne 03 External lighting						
e 03 External lighting	No. of BREEAM credits available				ution to overall score	0.63%
ne 03 External lighting	No. of BREEAM credits available No. of BREEAM innovation credits available				ution to overall score	0.63% No
e 03 External lighting						
			Compliant?			
sessment criteria	No. of BREEAM innovation credits available	0	•	Minimum  Credits available	Credits achieved	
sessment criteria		0	Compliant? Yes	Minimum	standards applicable	
sessment criteria	No. of BREEAM innovation credits available state of the s	0 ⊇ BREEAM criteria?	•	Minimum  Credits available	Credits achieved	
sessment criteria	No. of BREEAM innovation credits available sand controls be specified in accordance with the Total BREEAM credits achieved	0 e BREEAM criteria?	•	Minimum  Credits available	Credits achieved	
ssessment criteria	No. of BREEAM innovation credits available s and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score	0 e BREEAM criteria? 1 0.63%	•	Minimum  Credits available	Credits achieved	
sessment criteria	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
sessment criteria	No. of BREEAM innovation credits available s and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
sessment criteria Vill external light fitting	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
ssessment criteria Will external light fitting	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
ssessment criteria Will external light fitting	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
ssessment criteria Will external light fitting	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
ssessment criteria Will external light fitting	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
ssessment criteria Will external light fitting	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
sessment criteria Vill external light fitting	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
sessment criteria Vill external light fitting	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
sessment criteria Vill external light fitting	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	
Ene 03 External lighting  Assessment criteria  Will external light fitting  Comments/notes:	No. of BREEAM innovation credits available and controls be specified in accordance with the Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0  BREEAM criteria?  1  0.63%  N/A	•	Minimum  Credits available	Credits achieved	



### Ene 04 Low carbon design

No. of BREEAM credits available	3		Available contribu	ition to overall score	1.88%
No. of BREEAM innovation credits available	0			standards applicable	No
ssessment criteria		Compliant?	Credits available	Credits achieved	
Will passive design measures be used in line with an analysis be carried out design stage (RIBA stage 2		No	1	0	
Will free cooling measures be implemented in the whole building in line w	with the passive design analysis?	No	1	0	
Will a LZC technology be specified in line with a feasibility study car completion of the Concept Design stage (RIBA Stage 2		No	1	0	
PI - Low and/or zero carbon energy generation Total on-site and/or near-site LZC ene	ergy generation	INA	kWh/yr		
		1107	], ,.		
Total BREEAM credits achieved  Total contribution to overall building score	0.00%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
omments/notes:					
ne OS Energy efficient cold storage					
ne 05 Energy efficient cold storage					
No. of BREEAM credits available	2			ution to overall score	1.25%
	2 0			ition to overall score standards applicable	1.25% No
No. of BREEAM credits available  No. of BREEAM innovation credits available		Compliant	Minimum	standards applicable	
No. of BREEAM credits available	0	Compliant?	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment criteria  Will the refrigeration system be designed, installed & commissioned in a	0	Compliant?	Minimum	standards applicable	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment criteria  Will the refrigeration system be designed, installed & commissioned in a	0 accrodance with REEAM criteria?		Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a  BR  Will the refrigeration system demonstrate a saving in indirect greenhouse	0 ccrodance with REEAM criteria? gas emissions?	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment criteria  Will the refrigeration system be designed, installed & commissioned in a	0 accrodance with REEAM criteria?	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a  BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved	0 occrodance with REEAM criteria? e gas emissions?	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a  BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved  Total contribution to overall building score	0 ccrodance with REEAM criteria? gas emissions?  0 0.00%	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ccrodance with REEAM criteria? gas emissions?  0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	0 ccrodance with REEAM criteria? gas emissions?  0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	0 ccrodance with REEAM criteria? gas emissions?  0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	0 ccrodance with REEAM criteria? gas emissions?  0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	0 ccrodance with REEAM criteria? gas emissions?  0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	0 ccrodance with REEAM criteria? gas emissions?  0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	0 ccrodance with REEAM criteria? gas emissions?  0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment criteria  Will the refrigeration system be designed, installed & commissioned in a  BR  Will the refrigeration system demonstrate a saving in indirect greenhouse  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level	0 ccrodance with REEAM criteria? gas emissions?  0 0.00% N/A	No	Minimum  Credits available	Credits achieved	

Ene 06 Energy efficient transportation systems

No. of BREEAM credits available	3		Available contribu	ition to overall score	1.88%
No. of BREEAM innovation credits available	0			standards applicable	N/A
ssessment criteria		Compliant?	Credits available	Credits achieved	
Will a transportation system analysis be carried out to determine and specify the	e ontimum	Compilants	Credits available	Credits deflieved	
number, size and type of lifts that is most energy		Yes	1	1	
Will the relevant energy-efficient features criter	_	Yes	2	2	
Tabel DDFFAM and the achieved	2				
Total BREEAM credits achieved  Total contribution to overall building score	3 1.88%				
	N/A				
	N/A				
S					
Comments/notes:					
e 07 Energy efficient laboratory systems				Assessment issue	not applica
No. of BREEAM credits available	N/A		Available contribu	ition to overall score	N/A
	N/A			standards applicable	N/A
THE ST BREET WITH MINORAGE OF CARD A TANADA C	14/71			starraar as approasite	,,.
ssessment criteria		Compliant?	Credits available	Credits achieved	
		Compilanti	Credits available	Credits acriieved	
Pre-requisite: Criterion 1 of Hea 03 - risk assessment of laborato					
Have the occupants' laboratory requirements & performance criteria been confirr	med during				
the preparation of the initial project brief to minimise energy	y demand?				
Best Practice Energy Practices in Laboratories					
Will the laboratory meet criteria item b) F					
Will the laboratory criteria item c) Fume cupboard volume t					
Will the laboratory criteria item c) Fume cupboard volume t	n activities?				
Will the laboratory criteria item c) Fume cupboard volume t Will the lab meet item d) Grouping / isolation of high filtration/ventilation	n activities? very - heat?				
Will the laboratory criteria item c) Fume cupboard volume t Will the lab meet item d) Grouping / isolation of high filtration/ventilation Will the laboratory meet criteria item e) Energy recov	n activities? very - heat? y - cooling?				
Will the laboratory criteria item c) Fume cupboard volume f Will the lab meet item d) Grouping / isolation of high filtration/ventilation Will the laboratory meet criteria item e) Energy recovery Will the laboratory meet criteria item f) Energy recovery Will the laboratory meet criteria item g) Grouping of coo Will the laboratory meet criteria item h) Fre	n activities? very - heat? y - cooling? bling loads? ee cooling?				
Will the laboratory criteria item c) Fume cupboard volume f Will the lab meet item d) Grouping / isolation of high filtration/ventilation Will the laboratory meet criteria item e) Energy recovery Will the laboratory meet criteria item f) Energy recovery Will the laboratory meet criteria item g) Grouping of coo Will the laboratory meet criteria item h) Fre Will the laboratory meet criteria item i) Load respo	n activities? very - heat? y - cooling? bling loads? ee cooling? onsiveness?				
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Will the laboratory criteria item c) Fume cupboard volume f Will the lab meet item d) Grouping / isolation of high filtration/ventilation Will the laboratory meet criteria item e) Energy recovery Will the laboratory meet criteria item f) Energy recovery Will the laboratory meet criteria item g) Grouping of coo Will the laboratory meet criteria item h) Fre Will the laboratory meet criteria item j) Load respo	n activities? very - heat? y - cooling? bling loads? ee cooling? onsiveness? eanrooms? ) Diversity?				
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Will the laboratory criteria item c) Fume cupboard volume of Will the lab meet item d) Grouping / isolation of high filtration/ventilation Will the laboratory meet criteria item e) Energy recovery will the laboratory meet criteria item f) Energy recovery Will the laboratory meet criteria item g) Grouping of coo Will the laboratory meet criteria item h) Fre Will the laboratory meet criteria item j) Cla Will the laboratory meet criteria item k) Will the laboratory meet criteria item l) Room air-cha Total BREEAM credits achieved  Total contribution to overall building score Total BREEAM innovation credits achieved  Minimum standard(s) level	n activities? very - heat? y - cooling? oling loads? ee cooling? onsiveness? eanrooms? ) Diversity? ange rates?  N/A N/A N/A				



### Ene 08 Energy efficient equipment

	No. of BREEAM credits available	2		Available contrib	ution to overall score	1.25%
	No. of BREEAM innovation credits available	0			standards applicable	No
sessment criteria						
Which of the fo	ollowing will be present and likely to be a/the majo		Present	Major impact		
	'unregula Ref A Small power and plu	ited' energy use?		1	ī	
		Swimming pool?			•	
		nmunal laundry?				
	Ref E IT-intensive o	of D Data centre?				
		esidential areas?			•	
	Ref H Kitchen and ca	ef G Healthcare?		Yes		
	Net IT Nichell and Co	atering facilities:		163		
			Compliant	Credits available	Credits achieved	
Will the significant n	najority contributor(s) to 'unregulated' energy use		Yes	2	2	
	E	BREEAM criteria?		_	_	
	Total BREEAM credits achieved	2				
	Total contribution to overall building score	1.25%				
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	N/A				
nments/notes:						
e 09 Drying space					Assessment issue	not applica
09 Drying space	No. of BREEAM credits available	N/A		Available contrib	Assessment issue	e not applica
09 Drying space	No. of BREEAM credits available No. of BREEAM innovation credits available	N/A N/A				
09 Drying space					ution to overall score	N/A
			Compliant?		ution to overall score	N/A
		N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
	No. of BREEAM innovation credits available	N/A ngs be provided?	Compliant?	Minimum	ution to overall score standards applicable	N/A
	No. of BREEAM innovation credits available  Will internal/external drying space and fixin	N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
	No. of BREEAM innovation credits available  Will internal/external drying space and fixir  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	N/A ngs be provided? N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
	No. of BREEAM innovation credits available  Will internal/external drying space and fixir  Total BREEAM credits achieved  Total contribution to overall building score	N/A ngs be provided? N/A N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
e 09 Drying space sessment criteria	No. of BREEAM innovation credits available  Will internal/external drying space and fixir  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	N/A ngs be provided? N/A N/A N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
essment criteria	No. of BREEAM innovation credits available  Will internal/external drying space and fixir  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	N/A ngs be provided? N/A N/A N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
essment criteria	No. of BREEAM innovation credits available  Will internal/external drying space and fixir  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	N/A ngs be provided? N/A N/A N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
essment criteria	No. of BREEAM innovation credits available  Will internal/external drying space and fixir  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	N/A ngs be provided? N/A N/A N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
essment criteria	No. of BREEAM innovation credits available  Will internal/external drying space and fixir  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	N/A ngs be provided? N/A N/A N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
essment criteria	No. of BREEAM innovation credits available  Will internal/external drying space and fixir  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	N/A ngs be provided? N/A N/A N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A
essment criteria	No. of BREEAM innovation credits available  Will internal/external drying space and fixir  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	N/A ngs be provided? N/A N/A N/A	Compliant?	Minimum	ution to overall score standards applicable	N/A



### TRANSPORT Tra 01 Public Transport Accessibility No. of BREEAM credits available Available contribution to overall score 4.09% No. of BREEAM innovation credits available Minimum standards applicable No Building type category (for purpose of Tra01 issue assessment) Other Building Type 2 Assessment Criteria Compliant Credits available Credits achieved Indicative public transport accessibility index (AI): 18.00 5 Will the building have a dedicated bus service? Indicative Accessibility Index for pre-assessment Poor or no public transport provision 0 A single BREEAM compliant public transport node available 2 Some BREEAM compliant public transport nodes/services available 4 A selection of BREEAM compliant public transport nodes/services available 8 Good provision of public transport i.e. small urban centre / suburban area 10 Very Good provision of public transport i.e. small/medium urban centre Excellent provision of public transport, i.e. medium urban centre Excellent provision of public transport, i.e. large urban/metropolitan city centre 18 Total BREEAM credits achieved Total contribution to overall building score 4.09% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Comments/notes: Tra 02 Proximity to Amenities No. of BREEAM credits available Available contribution to overall score 0.82% No. of BREEAM innovation credits available Minimum standards applicable No Compliant? Assessment Criteria Credits available Credits achieved Will the building be in close proximity of and accessible to applicable amenities? Yes Total BREEAM credits achieved Total contribution to overall building score 0.82% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Comments/notes:



Tra 03 Cyclist facilities No. of BREEAM credits available Available contribution to overall score 1.64% Minimum standards applicable No. of BREEAM innovation credits available 0 No Building type category (for purpose of Tra03 issue assessment) Other Building - transport type 2 How many compliant cycle storage spaces will be provided? What cyclist facilities will be provided? No compliant facilities Assessment Criteria Compliant? Credits available Credits achieved Cycle storage spaces No 2 0 Cyclist facilities No Total BREEAM credits achieved Total contribution to overall building score 0.00% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Comments/notes: Tra 04 Maximum Car Parking Capacity No. of BREEAM credits available Available contribution to overall score 1.64% Minimum standards applicable No. of BREEAM innovation credits available Nο Building type category (for purpose of Tra04 issue) Other Building - transport type 2 Building's indicative Accessibility Index (sourced from issue Tra01) 18 Assessment Criteria Compliant? Credits available Credits achieved Will BREEAM's maximum parking capacity criteria for the building type/Accessibility Index be Yes 2 2 Total BREEAM credits achieved 2 Total contribution to overall building score 1.64% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Comments/notes:

### Tra 05 Travel Plan

ra 05 Travel Plan					
No. of BREEAM credits available	1		Available contrib	oution to overall score	0.82%
No. of BREEAM innovation credits available	0			standards applicable	No
ssessment Criteria		C!:+2	Credits available	Credits achieved	
Will a transport plan based on site specific travel survey/assessmen	nt he developed?	Compliant?	1	0	
will a transport plan based on site specific traver survey/assessmen	iit be developed!	INU	Ι	0	
Total BREEAM credits achieved	0				
Total contribution to overall building score	0.00%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
Comments/notes:					
·					
NATER					
Vat 01 Water Consumption					
No. of BREEAM credits available	5		Available contrib	oution to overall score	4.38%
No. of BREEAM innovation credits available	1			standards applicable	Yes
How do you wish to assess the number of BREEAM credits to be achieved	for this issue?	Define a target s	% improvement over	baseline sanitary fittings	
Vhat is the target for % reduction in potable water consumption for sanitary	y use in the buildin	g?	25% - two credits		
Shara sharaha ah hita aasada aa aad					
Please select the calculation procedure used					
tandard approach data					
Water Consumption from building mi	icro-components		L/person/day		
Water demand met via greywater/r			L/person/day		
	·		L/person/uay		
	ater consumption		L/person/day		
Improvement on base	-				
Improvement on base  (ey Performance Indicator - use of freshwater resource	-		L/person/day		
ley Performance Indicator - use of freshwater resource	-		L/person/day %		
Yey Performance Indicator - use of freshwater resource  Total net Wat	line performance		L/person/day		
iey Performance Indicator - use of freshwater resource  Total net Wat  Default bu	line performance		L/person/day %		
Yey Performance Indicator - use of freshwater resource  Total net War  Default bu  Alternative approach data	line performance ter Consumption uilding occupancy		L/person/day %		
iey Performance Indicator - use of freshwater resource  Total net Wat  Default bu	line performance ter Consumption uilding occupancy		L/person/day %		
Yey Performance Indicator - use of freshwater resource  Total net War  Default bu  Alternative approach data	line performance ter Consumption uilding occupancy		L/person/day %		
ley Performance Indicator - use of freshwater resource  Total net War  Default bu  Silternative approach data  Overall microcomponent performance	line performance ter Consumption uilding occupancy		L/person/day %		
ley Performance Indicator - use of freshwater resource  Total net War  Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved	ter Consumption uilding occupancy		L/person/day %		
ley Performance Indicator - use of freshwater resource  Total net War  Default bu  Silternative approach data  Overall microcomponent performance	ter Consumption uilding occupancy		L/person/day %		
Total net War Default but Alternative approach data Overall microcomponent performanc Total BREEAM credits achieved Total contribution to overall building score	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default but Silternative approach data Overall microcomponent performanc Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		
Total net War Default bu  Sternative approach data  Overall microcomponent performance  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ter Consumption uilding occupancy ce level achieved 2 1.75% 0		L/person/day %		



# Wat 02 Water Monitoring

	No. of BREEAM credits available	1		Available contribu	ution to overall score	0.88%
	No. of BREEAM innovation credits available	0		Minimum	standards applicable	Yes
ssessment Criteria	and the second s		Compliant?	Credits available	Credits achieved	
	ere be a water meter on the mains water supply toring equipment be specified on the water sup		Yes	1	1	
Will illetering/illoni		int/building areas?	Yes			
	Will all specified water meters have		Yes			
If the site/building has a	an existing BMS connection, will all pulsed mete	rs be connected to the BMS?	Yes			
	Total BREEAM credits achieved	1		-		
	Total contribution to overall building score					
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	Outstanding level				
omments/notes:						
Vat 03 Water Leak Detect	ion and Prevention					
Vat 03 Water Leak Detect		2		Available contrib	ution to overall score	1.75%
Vat 03 Water Leak Detect	No. of BREEAM credits available				ution to overall score	
/at 03 Water Leak Detect					ution to overall score standards applicable	1.75% No
	No. of BREEAM credits available		Compliant?	Minimum	standards applicable	
ssessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available	0	Compliant?	Minimum  Credits available	standards applicable  Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available No. of BREEAM innovation credits available etection system be installed on the building's m	0 ains water supply?	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available No. of BREEAM innovation credits available	0 ains water supply?	-	Minimum  Credits available	standards applicable  Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available No. of BREEAM innovation credits available etection system be installed on the building's m	0 ains water supply? itary area/facility?	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available No. of BREEAM innovation credits available etection system be installed on the building's m Will flow control devices be installed in each san	0 ains water supply? iitary area/facility?	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available No. of BREEAM innovation credits available etection system be installed on the building's m Will flow control devices be installed in each san	0 ains water supply? iitary area/facility?  0 0.00%	No	Minimum  Credits available	Credits achieved	
sssessment Criteria Will a mains water leak d	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available No. of BREEAM innovation credits available etection system be installed on the building's m Will flow control devices be installed in each san Total BREEAM credits achieved Total contribution to overall building score	0 ains water supply? aitary area/facility?  0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
sssessment Criteria Will a mains water leak d	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
sssessment Criteria Will a mains water leak d	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	
ssessment Criteria Will a mains water leak d	No. of BREEAM credits available  No. of BREEAM innovation credits available  etection system be installed on the building's m  Will flow control devices be installed in each san  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 ains water supply? aitary area/facility? 0 0.00% N/A	No	Minimum  Credits available	Credits achieved	



Wat 04 Water Efficient Equipment				Assessment iss	sue not applicable
No. of BREEAM credits available	N/A		Available contrib	oution to overall score	N/A
No. of BREEAM innovation credits available	N/A			standards applicable	N/A
No. of Breezewarm intovation creates available	14//		14IIIIIIIIIII	r staridards applicable	14//
Assessment Criteria		Compliant?	Credits available	Credits achieved	
Has a meaningful reduction in unregulated water demand b	been achieved?				
rias a meaning arreaderion in amegalated water demand t	been demeved.				
Total BREEAM credits achieved	N/A				
Total contribution to overall building score	N/A				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
iviiiiiitutii statidai d(s) ievei	N/A				
Comments/notes:					
MATERIALS					
VIATERIALS					
Not 01 Life Cycle Immeets					
Nat 01 Life Cycle Impacts					
No. of BREEAM credits available	6		Available contrib	oution to overall score	5.79%
No. of BREEAM innovation credits available	3		Iviinimum	n standards applicable	No
How do you wish to assess the number of BREEAM credits to be achieved for	or this issue?	Define the numb	er of Mat 01 credits	sachieved	
·	or triis issue:	benne the namb	er or wat or create	demeved	
Assessment Criteria			7		
Predicted total Mat01 c	redits achieved	6	]		
	points achieved		1		
Green Guide exemplary le	evel compliant?				
Has IMPACT compliant softwa					
That in Not compliant sorter	are been asea.		1		
				Area of element	
		Total area of	Total impact	impact data	
Cey Performance Indicator - embodied green house gas emissions by element		element m <sup>2</sup>	kgCO₂ eq.	relevant to m <sup>2</sup>	
	External walls		1		
	Windows		1		
	Roof				
Upper flo	or construction				
	Internal wall				
Floor fini	ishes/coverings				
Key Performance Indicator - embodied green house gas emissions for building	(accessed alams	ents only)			
	-		1		1.00 /2
Total embodied green house gas emissions for building (by asse		Missing data	kgCO <sub>2</sub> eq.		kgCO <sub>2</sub> eq./m <sup>2</sup>
Proportion of applicable building elements that data r	eported covers		]		
Total BREEAM credits achieved	6				
Total contribution to overall building score	5.79%				
Total BREEAM innovation credits achieved	0				
Minimum standard(s) level	N/A				
Comments/notes:					



# Mat 02 Hard Landscaping and Boundary Protection

iat uz Hard Landscaping ar	•					
	No. of BREEAM credits available	e 1		Available contrib	ution to overall score	0.96%
	No. of BREEAM innovation credits available	e 0		Minimum	standards applicable	No
ssessment Criteria			Compliant?	Credits available	Credits achieved	
Vill ≥80% of all external ha	rd landscaping and boundary protection achie	ve a Green Guide A	Yes	1	1	
		or A+ rating?	1.03	_	1	
	Total BREEAM credits achieved	d 1				
	Total contribution to overall building score					
	Total BREEAM innovation credits achieved	d N/A				
	Minimum standard(s) leve	l N/A				
omments/notes:						
The contract of the cost						
	No. of RREEAM credits available	1		Available contrib	ition to overall score	3 86%
	No. of BREEAM credits available				ution to overall score	3.86% Yes
ssessment Criteria	No. of BREEAM innovation credits available	2 1	Compliant			
	No. of BREEAM innovation credits available d timber based products are 'Legally harvested	$=$ $1$ $1$ $1$ and trader timber $^{\prime}$	Yes	Minimum  Credits available	standards applicable Credits achieved	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable	e 1 I and trader timber' procurement plan?	Yes Yes	Minimum  Credits available	credits achieved	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater	e 1 I and trader timber' procurement plan? ials points achieved	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable	e 1 I and trader timber' procurement plan? ials points achieved	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us	and trader timber' procurement plan? ials points achieved sed to assess Mat03	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater	and trader timber' procurement plan? ials points achieved sed to assess Mat03	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us  Total BREEAM credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater Please confirm the route us Total BREEAM credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03 d 3 e 2.89% d 0	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us  Total BREEAM credits achieved  Total BREEAM innovation credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03 d 3 e 2.89% d 0	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us  Total BREEAM credits achieved  Total BREEAM innovation credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03 d 3 e 2.89% d 0	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us  Total BREEAM credits achieved  Total BREEAM innovation credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03 d 3 e 2.89% d 0	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us  Total BREEAM credits achieved  Total BREEAM innovation credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03 d 3 e 2.89% d 0	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us  Total BREEAM credits achieved  Total BREEAM innovation credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03 d 3 e 2.89% d 0	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us  Total BREEAM credits achieved  Total BREEAM innovation credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03 d 3 e 2.89% d 0	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us  Total BREEAM credits achieved  Total BREEAM innovation credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03 d 3 e 2.89% d 0	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	
All timber and	No. of BREEAM innovation credits available d timber based products are 'Legally harvested Is there a documented sustainable age of available responsible sourcing of mater  Please confirm the route us  Total BREEAM credits achieved  Total BREEAM innovation credits achieved	d and trader timber' procurement plan? ials points achieved sed to assess Mat03 d 3 e 2.89% d 0	Yes Yes 40.00%	Minimum  Credits available  1 3	Credits achieved  1 2	



### Mat 04 Insulation

What is the building's targeted insulating index2 2.50 1 1 Note: An institution to overall building score 0.96% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A  Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A  Ments/notes:  D5 Designing for durability and resilience  No. of BREEAM credits available 1 Available contribution to overall score 0.96% No. of BREEAM innovation credits available 0 Minimum standards applicable N/A		No. of BREEAM credits a	available	1		Available contrib	ution to overall score	0.96%
What is the building's targeted insulating index?  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level  N/A  Minimum standard(s) level  No. of BREEAM credits available  No. of BREEAM credits available  No. of BREEAM innovation credits available  Total BREEAM credits achieved  Total BREEAM credits achieved  Total BREEAM credits achieved  1  Total contribution to overall building score  1  Total BREEAM credits achieved  1  Total Contribution to overall building score  1		No. of BREEAM innovation credits a	vailable	0		Minimum	standards applicable	No
What is the building's targeted insulating index?  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved  Minimum standard(s) level  N/A  Minimum standard(s) level  No. of BREEAM credits available  No. of BREEAM credits available  No. of BREEAM innovation credits available  Total BREEAM credits achieved  Total BREEAM credits achieved  Total BREEAM credits achieved  1  Total contribution to overall building score  1  Total BREEAM credits achieved  1  Total Contribution to overall building score  1								
Total BREEAM credits achieved Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A  Designing for durability and resilience  No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM inno	sessment Criteria					Credits available	Credits achieved	
Total contribution to overall building score Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A  Sements/notes:  No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits availa		What is the building's	targeted	insulating index?	2.50	1	1	Note: An insula
Total contribution to overall building score Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A  Sements/notes:  No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits availa		Total RDEEAM credits a	chieved	1				
Total BREEAM innovation credits achieved M/A  Minimum standard(s) level N/A  ments/notes:  D5 Designing for durability and resilience  N0. of BREEAM credits available 1 Available contribution to overall score 0.96%  N0. of BREEAM innovation credits available 0 Minimum standards applicable N/A  Sment Criteria Compliant? Credits available Credits achieved the building? Yes 1 1 1  Total BREEAM credits achieved 1  Total contribution to overall building score 0.96%								
D5 Designing for durability and resilience  No. of BREEAM credits available  No. of BREEAM innovation credits								
No. of BREEAM credits available  No. of BREEAM credits available  No. of BREEAM innovation credits available  No. of BREEAM innovation credits available  No. of BREEAM innovation credits available  Compliant?  Credits available  Credits achieved  Suitable durability/protection measures be specified and installed to vulnerable areas of the building?  Total BREEAM credits achieved  Total BREEAM credits achieved  Total BREEAM credits achieved  1  Total contribution to overall society  1  Total BREEAM credits achieved  1  Total contribution to overall building score  0.96%		Minimum standard	d(s) level	N/A				
No. of BREEAM credits available  No. of BREEAM credits available  No. of BREEAM innovation credits available  No. of BREEAM innovation credits available  No. of BREEAM innovation credits available  Compliant?  Credits available  Credits achieved  Suitable durability/protection measures be specified and installed to vulnerable areas of the building?  Total BREEAM credits achieved  Total BREEAM credits achieved  Total BREEAM credits achieved  1  Total contribution to overall society  1  Total BREEAM credits achieved  1  Total contribution to overall building score  0.96%	mmonts/notos:							
No. of BREEAM credits available No. of BREEAM innovation credits ava	illients/flotes.							
No. of BREEAM credits available No. of BREEAM innovation credits ava								
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No. of BREEAM credits available No. of BREEAM innovation credits ava								
No. of BREEAM credits available No. of BREEAM innovation credits ava								
No. of BREEAM innovation credits available  Compliant?  Credits available  Credits achieved  Suitable durability/protection measures be specified and installed to vulnerable areas of the building?  Ill suitable durability/protection measures be specified and installed to exposed parts of the building?  Total BREEAM credits achieved  Total contribution to overall building score  N/A  Compliant?  Yes  Yes  1  1  1  Total contribution to overall building score  0.96%								
No. of BREEAM innovation credits available  Compliant?  Credits available  Credits achieved  Suitable durability/protection measures be specified and installed to vulnerable areas of the building?  Ill suitable durability/protection measures be specified and installed to exposed parts of the building?  Total BREEAM credits achieved  Total contribution to overall building score  N/A  Compliant?  Yes  Yes  1  1  1  Total contribution to overall building score  0.96%	t 05 Designing for dura	bility and resilience						
sment Criteria  Compliant?  Credits available  Credits achieved  Suitable durability/protection measures be specified and installed to vulnerable areas of the building?  Ill suitable durability/protection measures be specified and installed to exposed parts of the building?  Total BREEAM credits achieved  Total contribution to overall building score  1  1  1  1  1  1  1  1  1  1  1  1  1	t 05 Designing for dura	•	ovailahla	1		Available contrib	ution to overall score	0.06%
suitable durability/protection measures be specified and installed to vulnerable areas of the building?  ill suitable durability/protection measures be specified and installed to exposed parts of the building?  Total BREEAM credits achieved 1  Total contribution to overall building score 0.96%	t 05 Designing for dura	No. of BREEAM credits a						
suitable durability/protection measures be specified and installed to vulnerable areas of the building?  ill suitable durability/protection measures be specified and installed to exposed parts of the building?  Total BREEAM credits achieved 1  Total contribution to overall building score 0.96%	t 05 Designing for dura	No. of BREEAM credits a						
the building?  ill suitable durability/protection measures be specified and installed to exposed parts of the building?  Total BREEAM credits achieved 1  Total contribution to overall building score 0.96%		No. of BREEAM credits a			Camplingt	Minimum	standards applicable	
Total BREEAM credits achieved 1 Total contribution to overall building score 0.96%	essment Criteria	No. of BREEAM credits a	available	0	-	Minimum	standards applicable	
Total BREEAM credits achieved 1  Total contribution to overall building score 0.96%	essment Criteria	No. of BREEAM credits a	available	0 Ilnerable areas of	-	Minimum  Credits available	standards applicable  Credits achieved	
Total contribution to overall building score 0.96%	essment Criteria Il suitable durability/pr	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta	available alled to vu	0 Ilnerable areas of the building?	Yes	Minimum  Credits available	standards applicable  Credits achieved	
Total contribution to overall building score 0.96%	essment Criteria Il suitable durability/pr	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta	available alled to vu	0 Ilnerable areas of the building? exposed parts of	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria Il suitable durability/pr	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta	available alled to vu	0 Ilnerable areas of the building? exposed parts of the building?	Yes	Minimum  Credits available	standards applicable  Credits achieved	
Total Breenin innovation credits achieved N/A	essment Criteria Il suitable durability/pr	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a	available alled to vu astalled to achieved	0  Ilnerable areas of the building? exposed parts of the building?	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria Il suitable durability/pr	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin	available alled to vu astalled to achieved ng score	O Ilnerable areas of the building? exposed parts of the building? 1 0.96%	Yes	Minimum  Credits available	standards applicable  Credits achieved	
Minimum standard(s) level N/A	essment Criteria Il suitable durability/pr	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	ssessment Criteria Vill suitable durability/pr	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta	available alled to vu	0 Ilnerable areas of the building? exposed parts of	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria Il suitable durability/pr	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin	available alled to vu astalled to achieved achieved achieved achieved	O Ilnerable areas of the building? exposed parts of the building? 1 0.96%	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria Il suitable durability/pr Will suitable durability,	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria Il suitable durability/pr Will suitable durability,	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria ill suitable durability/pr Will suitable durability,	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria ill suitable durability/pr Will suitable durability,	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria ill suitable durability/pr Will suitable durability,	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria ill suitable durability/pr Will suitable durability,	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	sessment Criteria ill suitable durability/pr	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria ill suitable durability/pr Will suitable durability,	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria ill suitable durability/pr Will suitable durability,	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	
	essment Criteria ill suitable durability/pr Will suitable durability,	No. of BREEAM credits a  No. of BREEAM innovation credits a  otection measures be specified and insta  /protection measures be specified and in  Total BREEAM credits a  Total contribution to overall buildin  Total BREEAM innovation credits a	available alled to vu astalled to achieved achieved achieved achieved	ollnerable areas of the building? exposed parts of the building?  1 0.96% N/A	Yes	Minimum  Credits available	standards applicable  Credits achieved	

### Mat 06 Material efficiency

	No. of BREEAM credits available	1		Available contribution to overall score	0.96%
	No. of BREEAM innovation credits available	0		Minimum standards applicable	No
cossmant Critoria			Compliant	Credits available Credits achieved	
sessment Criteria Will material ef	fficiency measures be identified & implemented duri	ing all RIBA stages?	Compliant?	1 0	
	Total BREEAM credits achieved	0			
	Total contribution to overall building score				
	Total BREEAM innovation credits achieved	N/A			
	Minimum standard(s) level	I N/A			
mments/notes:					
ASTE st 01 Construction V	Vaste Management				
	No. of BREEAM credits available	4		Available contribution to overall score	4.25%
	No. of BREEAM innovation credits available	1		Minimum standards applicable	Yes
How do you wish to	assess the number of BREEAM credits to be achieve	ed for this issue?	efine a target nur	nber of BREEAM credits	
	Select the number of BREEAM credits being targete	ad for issue Wet 01:	4	BREEAM Wst01 Innovation credits:	
sessment Criteria y Performance Indic	Construction resource Compliant Pr Does the excavation waste meet the exemplary lo ators - Construction Waste Measure/units for the d	re-demolition audit evel requirements?	Compliant?		
	Material f Hazardou	on waste generated everted from landfill everted from landfill on waste generated everted from landfill n waste to disposal Material for reuse aterial for recycling for energy recovery as waste to disposal		Note: At the pre-assess Note: At this stage this Note: At the pre-assess Note: At this stage this	will be a targe sment stage th will be a targe will be a targe sment stage th will be a targe will be a targe will be a targe will be a targe
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### Wst 02 Recycled Aggregates

No. of BREEAM innovation credits available  No. of BREEAM innovation credits available  No. of BREEAM credits available		No. of BREEAM credits avail	lable 1		Availab <u>le contrib</u> i	ution to overall score	1.06%
What is the target total % of high-grade aggregate that will be recycled/secondary aggregate?  of high-grade aggregate that is recycled/secondary aggregate - by application  Structural Hame  Bitumen/hydraulically bound base, binder and surface courses Building foundations  Concrete road surfaces  Pipe bedding  Granular fill and capping  Total Ontribution to overall building score  Total BREEAM credits achieved  Minimum standard(s) level  No. of BREEAM innovation credits achieved  No. of BREEAM innovation credits available  No. of BREEAM innovation credits achieved  No. of BREEAM innovation credits achieved  Total BREEAM credits achieved  No. of BREEAM innovation credits achieved  No. of B							
What is the target total % of high-grade aggregate that will be recycled/secondary aggregate?  of high-grade aggregate that is recycled/secondary aggregate - by application  Structural frame  Bitumen/hydraulically bound base, bined an surface courses suiding foundations  Concrete road surfaces  Pipe beedding  Granular fill and capping  Total contribution to overall building store  Total SREEAM innovation reedits achieved  Minimum standard(s) level  No. of BREEAM credits available  No. of BREEAM credits available  No. of BREEAM innovation credits achieved  Total contribution to overall building sorte  No.  Total BREEAM credits achieved  Total contribution to overall building sorte  Total BREEAM credits achieved  No.  Minimum standard(s) level  No.  Minimum standard(s) level							
aggregate / 0%  of high-grade aggregate that is recycled/secondary aggregate - by application  Structural frame Bitumen/hydraulically bound base, binder and surface courses Building Foundations Concrete road surfaces Pipe bedding Granular fill and capping  Total BREEAM credits achieved  Total contribution to overall building score Minimum standard(s) level  N/A  No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available  Total contribution to overall building score  Will operational recyclable waste volumes be segregated and stored? Will static waste compactor(s) or baler(s) be specified where appropriate? Will vessel(s) for composting suitable organic waste where appropriate? Will vessel(s) for composting suitable organic waste where appropriate?  Total BREEAM credits achieved Total contribution to overall building score Total area of the contribution to overall building score N/A Minimum standard(s) level Very Good level	ssessment Criteria			Total			
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Building foundations Concrete road surfaces Pipe bedding Granular fill and capping Granular fill		Bitumon/hydraulically hound have hing			-		
Pipe bedding		bitumenynyurauncany bound base, binc					
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	sessment Criteria Will Will stati Will ve	No. of BREEAM innovation credits avail operational recyclable waste volumes be so waste compactor(s) or baler(s) be specific seel(s) for composting suitable organic was seel and the seed of the seed	segregated and stored? ied where appropriate? ste where appropriate? eved 0 score 0.00% eved N/A	Yes N/A	Minimum  Credits available	standards applicable  Credits achieved	

Wst 04 Speculative Floor and Ceiling Finishes

Assessment issue not applicable

No. of BREEAM credits available	N/A		Available contribu	ition to overall score	N/A
No. of BREEAM innovation credits available	N/A		Minimum	standards applicable	N/A
Assessment Criteria		Compliant?	Credits available	Credits achieved	
Total BREEAM credits achieved	N/A				
Total contribution to overall building score	N/A				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
Comments/notes:					
Comments/notes.					
Wet OF Adoption to elimate shapes					
Wst 05 Adaption to climate change					
No. of RREFAM credits available	1		Available contrib	ition to overall score	1.06%
No. of BREEAM credits available	1			ution to overall score	1.06%
No. of BREEAM credits available  No. of BREEAM innovation credits available	1 1			ution to overall score	1.06% N/A
		Compliant?			
No. of BREEAM innovation credits available	1		Minimum  Credits available	credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr  conducted by the end of Concept Design (RIBA Stage 2 o	1 ric resilience be or equivalent)?	No	Minimum  Credits available	standards applicable	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr	1 ric resilience be or equivalent)?		Minimum  Credits available	credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr  conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate c	1 ric resilience be or equivalent)? change be met?	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr  conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Con	1 ric resilience be or equivalent)? change be met?	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding	ric resilience be or equivalent)? change be met?	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabre conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2 of Will emexplary level criteria – Responding to Concept (RIBA Stage 2	ric resilience be or equivalent)? change be met?	No	Minimum  Credits available	Credits achieved	
Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate conducted English Credits achieved  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate conducted English Credits achieved  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabre conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adap	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adap	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adap	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adap	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adap	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adap	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation credits available  Assessment Criteria  Will a climate change adaptation strategy appraisal for structural and fabr conducted by the end of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to climate of Concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adaptation to concept Design (RIBA Stage 2 of Will emexplary level criteria – Responding to adap	ric resilience be or equivalent)? change be met?  0 0.00% 0	No	Minimum  Credits available	Credits achieved	

# Wst 06 Functional adaptability

	No. of BREEAM credits available	1		Available contrib	ution to overall score	1.06%
	No. of BREEAM innovation credits available	0		Minimum	standards applicable	N/A
ssessment Criteria			Compliant?	Credits available	Credits achieved	
	functional adaptation strategy appraisal be cond Stage 2 or equivalent) and will functional adapta		No	1	0	
	Total BREEAM credits achieved	0				
	Total contribution to overall building score	0.00%				
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	N/A				
omments/notes:						
AND USE & ECOLOGY						
AND USE & ECOLOGY E 01 Site Selection						
	No. of BREEAM credits available	2		Available contrib	ution to overall score	2.00%
	No. of BREEAM credits available No. of BREEAM innovation credits available	2 0			ution to overall score standards applicable	2.00% No
E 01 Site Selection			Compliant?			
E 01 Site Selection		0 reviously occupied	-	Minimum  Credits available	standards applicable  Credits achieved	
E 01 Site Selection	No. of BREEAM innovation credits available properties available properti	0 reviously occupied land?	Yes	Minimum  Credits available	Credits achieved	
E 01 Site Selection	No. of BREEAM innovation credits available	0 reviously occupied land?	-	Minimum  Credits available	standards applicable  Credits achieved	
E 01 Site Selection	No. of BREEAM innovation credits available posed development's footprint be located on properties of the site deemed to be significant to a significant of the signif	0 reviously occupied land? tly contaminated?	Yes	Minimum  Credits available	Credits achieved	
E 01 Site Selection	No. of BREEAM innovation credits available posed development's footprint be located on properties of the site deemed to be significant and the site deemed to be significant actions are some some some some some some some som	0 reviously occupied land? tly contaminated?  1 1.00%	Yes	Minimum  Credits available	Credits achieved	
E 01 Site Selection	No. of BREEAM innovation credits available  posed development's footprint be located on pr  Is the site deemed to be significant  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 reviously occupied land? tly contaminated?  1 1.00% N/A	Yes	Minimum  Credits available	Credits achieved	
E 01 Site Selection	No. of BREEAM innovation credits available posed development's footprint be located on properties of the site deemed to be significant and the site deemed to be significant actions are some some some some some some some som	0 reviously occupied land? tly contaminated?  1 1.00%	Yes	Minimum  Credits available	Credits achieved	
E 01 Site Selection	No. of BREEAM innovation credits available  posed development's footprint be located on pr  Is the site deemed to be significant  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 reviously occupied land? tly contaminated?  1 1.00% N/A	Yes	Minimum  Credits available	Credits achieved	
ssessment Criteria Vill at least 75% of the pro	No. of BREEAM innovation credits available  posed development's footprint be located on pr  Is the site deemed to be significant  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 reviously occupied land? tly contaminated?  1 1.00% N/A	Yes	Minimum  Credits available	Credits achieved	
ssessment Criteria Vill at least 75% of the pro	No. of BREEAM innovation credits available  posed development's footprint be located on pr  Is the site deemed to be significant  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 reviously occupied land? tly contaminated?  1 1.00% N/A	Yes	Minimum  Credits available	Credits achieved	
ssessment Criteria Vill at least 75% of the pro	No. of BREEAM innovation credits available  posed development's footprint be located on pr  Is the site deemed to be significant  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 reviously occupied land? tly contaminated?  1 1.00% N/A	Yes	Minimum  Credits available	Credits achieved	
ssessment Criteria Vill at least 75% of the pro	No. of BREEAM innovation credits available  posed development's footprint be located on pr  Is the site deemed to be significant  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 reviously occupied land? tly contaminated?  1 1.00% N/A	Yes	Minimum  Credits available	Credits achieved	
ssessment Criteria Vill at least 75% of the pro	No. of BREEAM innovation credits available  posed development's footprint be located on pr  Is the site deemed to be significant  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 reviously occupied land? tly contaminated?  1 1.00% N/A	Yes	Minimum  Credits available	Credits achieved	
ssessment Criteria Vill at least 75% of the pro	No. of BREEAM innovation credits available  posed development's footprint be located on pr  Is the site deemed to be significant  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	0 reviously occupied land? tly contaminated?  1 1.00% N/A	Yes	Minimum  Credits available	Credits achieved	



# LE 02 Ecological Value of Site and Protection of Ecological Features

No. of BREEAM credits available	2		Available contrib	ution to overall score	2.00%
No. of BREEAM innovation credits available				standards applicable	No
		The DDEEANA de	-1 P-1		
Ecological value of the I	and defined using	The BREEAIN che	CKIIST		
Assessment Criteria		Compliant?	Credits available	Credits achieved	
Can the land within the construction zone be defined as 'land of low Will all features of ecological value surrounding the construction zone		Yes	1	1	
Will dill leateres of ecological value surrounding the construction zone	protected?	Yes	1	1	
Total DDEFARA conflict out to a detail of	2		-		
Total BREEAM credits achieved  Total contribution to overall building score					
Total BREEAM innovation credits achieved					
Minimum standard(s) level					
Comments/notes:					
E 03 Mitigating Ecological Impact					
No. of BREEAM credits available				ution to overall score	2.00%
No. of BREEAM innovation credits available	0		Minimum	standards applicable	Yes
Data sourced for calculating the change in eco	ological value from		cation of broad hab	itat type(s) using BRE	EAM LE03/LE04
	, 10 11	Calculator			
ssessment Criteria					
What is the likely change in ecological value as a result of the si	tes development?	≥0 species (i.e. no	o negative change)		Plant species rich
Total BREEAM credits achieved	2				
Total contribution to overall building score	2.00%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	Outstanding level				
Comments Instage					
Comments/notes:					



# LE 04 Enhancing Site Ecology

No. of BREEAM credits available	2		Available contribu	ution to overall score	2.00%
No. of BREEAM innovation credits available	0		Minimum	standards applicable	No
ssessment Criteria		Compliant?	Credits available	Credits achieved	
Will a suitably qualified ecologist be appointed to report on enhancing a	and protecting site ecology?	No	2	0	
Will the suitably qualified ecologist's general recommendations	be implemented?				
What is the targeted/intended improvement in ecological value as a resu	t of enhancement actions?				
Total BREEAM credits achieved  Total contribution to overall building score	0.00%				
Total BREEAM innovation credits achieved	N/A				
Minimum standard(s) level	N/A				
omments/notes:					
Amency notes.					
05 Long Term Impact on Biodiversity					
E 05 Long Term Impact on Biodiversity	2		Available contrib	ution to avarall coars	2.00%
No. of BREEAM credits available	2			ution to overall score	2.00% No
	2 0			ution to overall score standards applicable	2.00% No
No. of BREEAM credits available No. of BREEAM innovation credits available		Compliant?	Minimum	standards applicable	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria	0	Compliant?	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impac	0 ts of site activities on biodiversity?	Compliant?	Minimum	standards applicable	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at	0  ts of site activities on biodiversity? least the first five	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  ssessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impac	0  ts of site activities on biodiversity? least the first five British Standards?	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with	0  ts of site activities on biodiversity? least the first five British Standards? confirmed by SQE:	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity. Number of applicable measures.	0  ts of site activities on biodiversity? least the first five British Standards? confirmed by SQE:	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity	0  ts of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity Number of applicable measures.  Total BREEAM credits achieved  Total Contribution to overall building score  Total BREEAM innovation credits achieved	0  ts of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity Number of applicable measures to Total BREEAM credits achieved  Total contribution to overall building score	ots of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  sessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity Number of applicable measures to improve biodiversity Number of applicable measures to Total BREEAM credits achieved  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ots of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:  0 0.00% N/A	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity Number of applicable measures  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ots of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:  0 0.00% N/A	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  /ill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity Number of applicable measures.  Total BREEAM credits achieved  Total contribution to overall building score  Total BREEAM innovation credits achieved	ots of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:  0 0.00% N/A	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity Number of applicable measures to improve biodiversity Number of applicable measures to improve biodiversity Total BREEAM credits achieved  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ots of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:  0 0.00% N/A	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity Number of applicable measures to improve biodiversity Number of applicable measures to improve biodiversity Total BREEAM credits achieved  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ots of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:  0 0.00% N/A	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity Number of applicable measures to improve biodiversity Number of applicable measures to improve biodiversity Total BREEAM credits achieved  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ots of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:  0 0.00% N/A	-	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM credits available  No. of BREEAM innovation credits available  seessment Criteria  fill a Suitably Qualified Ecologist be appointed to monitor/minimise impact  Will a landscape and habitat management plan be produced covering at years after project completion in accordance with Number of applicable measures to improve biodiversity Number of applicable measures to improve biodiversity Number of applicable measures to improve biodiversity Total BREEAM credits achieved  Total BREEAM credits achieved  Total BREEAM innovation credits achieved  Minimum standard(s) level	ots of site activities on biodiversity? least the first five British Standards? confirmed by SQE: tres implemented:  0 0.00% N/A	-	Minimum  Credits available	standards applicable  Credits achieved	

#### POLLUTION Pol 01 Impact of Refrigerants No. of BREEAM credits available Available contribution to overall score 2.31% No. of BREEAM innovation credits available Minimum standards applicable No Assessment Criteria Credits available Credits achieved Refrigerant containing systems installed in the assessed building? Yes 0 Do all systems (with electric compressors) comply with the requirements of BS EN 378:2008 (parts 2 & 3) & where refrigeration systems containing ammonia are installed, the loR Yes Ammonia Refrigeration Systems Code of Practice? Global Warming Potential of the specified refrigerant(s) 10 or less? No What is the target range Direct Effect Life Cycle CO2eq. emissions for the system? kgCO2eq/kW coolth capacity Cooling/Heating capacity of the system kW Will a refrigerant leak detection and containment system be specified/installed? Yes Total BREEAM credits achieved Total contribution to overall building score 0.77% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Comments/notes: Pol 02 NO<sub>x</sub> Emissions No. of BREEAM credits available Available contribution to overall score 2.31% No. of BREEAM innovation credits available Minimum standards applicable Nο Assessment Criteria NO<sub>x</sub> emission level - space heating 400.00 mg/kWh NO, emission level - cooling mg/kWh 400.00 NOx emission level - water heating 40.00 mg/kWh Does this building meet BREEAM's definition of a highly insulated building? N/A Energy consumption: heating and hot water kWh/m2 yr Total BREEAM credits achieved 0 Total contribution to overall building score 0.00% Total BREEAM innovation credits achieved N/A Minimum standard(s) level N/A Comments/notes:



# Pol 03 Surface Water Run off

	No. of BREEAM credits available	5		Available contribu	ition to overall score	3.85%
	No. of BREEAM innovation credits available	0		Minimum	standards applicable	No
ssessment Criteria			Compliant?	Credits available	Credits achieved	
What is the a	ctual/likely annual probability of flooding for	-	Low	2	2	
MOUNTS OF	Will a Flood Risk Assessmer	_	Yes			
	meet the BREEAM criteria for peak rate surfa a for surface water run off volume, attenuation		Yes	1	1	
		discharge?	Yes	1	1	
Will the site be designed to n	ninimise watercourse pollution in accordance		No	1	0	
		criteria?			-	
	Total BREEAM credits achieved	4				
	Total contribution to overall building score	3.08%				
	Total BREEAM innovation credits achieved	N/A				
	Minimum standard(s) level	N/A				
omments/notes:						
Jiiiiieits/iiotes.						
ol 04 Reduction of Night Tim	e Light Pollution					
ol 04 Reduction of Night Tim	-	1		Available contribu	ution to overall score	0.77%
ol 04 Reduction of Night Tim	e Light Pollution  No. of BREEAM credits available No. of BREEAM innovation credits available	1 0			ution to overall score	0.77% No
ol 04 Reduction of Night Tim	No. of BREEAM credits available					
	No. of BREEAM credits available		Compliant?	Minimum	standards applicable	
ssessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available	0	Compliant? Yes	Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria	No. of BREEAM credits available	0	Compliant? Yes	Minimum	standards applicable	
ssessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available nal lighting specification be designed to redu Total BREEAM credits achieved	0		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria	No. of BREEAM credits available  No. of BREEAM innovation credits available  ral lighting specification be designed to redu	0 ce light pollution?		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution? 1		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available nal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score	0 ce light pollution?  1 0.77%		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria Will the exte	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution?  1 0.77% N/A		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria Will the exte	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution?  1 0.77% N/A		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria Will the exte	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution?  1 0.77% N/A		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria Will the exter	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution?  1 0.77% N/A		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria Will the exter	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution?  1 0.77% N/A		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria Will the exter	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution?  1 0.77% N/A		Minimum  Credits available	standards applicable Credits achieved	
ol 04 Reduction of Night Timessessment Criteria Will the externation with the externation with the externation of Night Timessessment Criteria	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution?  1 0.77% N/A		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria Will the exte	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution?  1 0.77% N/A		Minimum  Credits available	standards applicable Credits achieved	
ssessment Criteria Will the exte	No. of BREEAM credits available No. of BREEAM innovation credits available anal lighting specification be designed to reduce Total BREEAM credits achieved Total contribution to overall building score Total BREEAM innovation credits achieved	0 ce light pollution?  1 0.77% N/A		Minimum  Credits available	standards applicable Credits achieved	

### Pol 05 Noise Attenuation

No. of BREEAM No. of BREEAM innovation	credits available					
		1		Available contribu	ition to overall score	0.77%
		0			standards applicable	0.77% No
NO. OF BREEAIN HITTOVALION	credits available	U		Willillium	standards applicable	INU
ssessment Criteria			Compliant	Credits available	Credits achieved	
Will there be noise-sensitive areas/buildings within	n 800m radius of th	ne development?	Yes	1	1	
Vill a noise impact assessment be carried out and, if appl	icable, noise atten		Yes			
		specified?				
Total BREEAM	credits achieved	1				
Total contribution to overa		0.77%				
Total BREEAM innovation		N/A				
	standard(s) level	N/A				
	starraar a(s) rever	,				
omments/notes:						
NOVATION						
n 01 Innovation	oradite quallabla	40		Available contrib	ution to overall cooks	10.009/
NNOVATION In 01 Innovation  No. of BREEAM innovation	credits available	10			ition to overall score	10.00%
n 01 Innovation	credits available	10			ution to overall score standards applicable	10.00% No
n 01 Innovation	credits available	10				
n <b>01</b> Innovation  No. of BREEAM innovation	credits available	10		Minimum	standards applicable	
No. of BREEAM innovation  sessment Criteria			Compliant?	Minimum  Credits available	standards applicable  Credits achieved	
No. of BREEAM innovation  sessment Criteria	Responsible const	ruction practices	No	Minimum  Credits available	Credits achieved	
No. of BREEAM innovation  sessment Criteria	Responsible const	ruction practices Van 05 Aftercare	No No	Credits available	Credits achieved	
No. of BREEAM innovation  sessment Criteria	Responsible const N Hea 0	ruction practices Man 05 Aftercare 1 Visual Comfort	No No No	Credits available  1 1 1 1	Credits achieved  0 0 0	
No. of BREEAM innovation  Seessment Criteria  Man 03	Responsible const N Hea 0 Hea 02 Ir	ruction practices Man 05 Aftercare 11 Visual Comfort ndoor Air Quality	No No No	Credits available  1 1 1 2	Credits achieved  0 0 0 0	
No. of BREEAM innovation  sessment Criteria	Responsible const N Hea 02 I Hea 02 I of energy use and c	ruction practices Man 05 Aftercare 11 Visual Comfort ndoor Air Quality	No No No No	Credits available  1 1 1 1	Credits achieved  0 0 0	
No. of BREEAM innovation  Sessment Criteria  Man 03	Responsible const N Hea 0 Hea 02 Ir of energy use and o Wat 01 Wat	ruction practices Man 05 Aftercare 1 Visual Comfort ndoor Air Quality carbon emissions	No No No	Credits available  1 1 1 2 5	Credits achieved  0 0 0 0 0 0	
No. of BREEAM innovation  Seessment Criteria  Man 03  Ene 01 Reduction of	Responsible const N Hea 0 Hea 02 Ir of energy use and o Wat 01 Wat	ruction practices Man 05 Aftercare 12 Visual Comfort ndoor Air Quality carbon emissions ter Consumption ife Cycle Impacts	No No No No No	Credits available  1 1 1 2 5 1	Credits achieved  0 0 0 0 0 0 0 0	
No. of BREEAM innovation  Seessment Criteria  Man 03  Ene 01 Reduction of Mat03	Responsible const N Hea 0 Hea 02 Ir of energy use and c Wat 01 Wat Mat01 L	ruction practices Man 05 Aftercare 12 Visual Comfort ndoor Air Quality carbon emissions ter Consumption ife Cycle Impacts cing of Materials	No No No No No No	Credits available  1 1 1 2 5 1 3	Credits achieved  0 0 0 0 0 0 0 0 0 0	
No. of BREEAM innovation  Sessment Criteria  Man 03  Ene 01 Reduction of Mat03	Responsible const Mea 0 Hea 02 Ir of energy use and c Wat 01 Wat Mat01 L 3 Responsible Sour 1 Construction Was	ruction practices Man 05 Aftercare 12 Visual Comfort ndoor Air Quality carbon emissions ter Consumption ife Cycle Impacts cing of Materials	No No No No No No No	Credits available  1 1 1 2 5 1 3	Credits achieved  0 0 0 0 0 0 0 0 0 0 0 0 0	
No. of BREEAM innovation  Sessment Criteria  Man 03  Ene 01 Reduction of Mat03  Wst01	Responsible const Mea 0 Hea 02 Ir of energy use and c Wat 01 Wat Mat01 L 3 Responsible Sour 1 Construction Was	ruction practices Man 05 Aftercare 12 Visual Comfort note of the content of the c	No N	Credits available  1 1 1 2 5 1 3 1 1	Credits achieved  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
No. of BREEAM innovation  Seessment Criteria  Man 03  Ene 01 Reduction of Mat03  Wst01	Responsible const Mea 0 Hea 02 Ir of energy use and c Wat 01 Wat Mat01 L 3 Responsible Sour 1 Construction Was	ruction practices Man 05 Aftercare 12 Visual Comfort ndoor Air Quality carbon emissions ter Consumption ife Cycle Impacts cing of Materials ste Management ycled Aggregates o climate change	No N	Credits available  1 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Credits achieved  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
No. of BREEAM innovation  Seessment Criteria  Man 03  Ene 01 Reduction of Mat03  Wst01	Responsible const Mea 0 Hea 02 Ir of energy use and c Wat 01 Wat Mat01 L 3 Responsible Sour 1 Construction Was	ruction practices Man 05 Aftercare 12 Visual Comfort ndoor Air Quality carbon emissions ter Consumption ife Cycle Impacts cing of Materials ste Management ycled Aggregates o climate change	No N	Credits available  1 1 1 2 5 1 3 1 1 1 1	Credits achieved  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
No. of BREEAM innovation  Seessment Criteria  Man 03  Ene 01 Reduction of Mat03  Wst01	Responsible const Hea 02 Ir of energy use and c Wat 01 Wat Mat01 L 3 Responsible Sour 1 Construction Was Wst02 Rec Wst 05 Adaption to	ruction practices Man 05 Aftercare 12 Visual Comfort ndoor Air Quality carbon emissions ter Consumption ife Cycle Impacts cing of Materials ste Management ycled Aggregates o climate change	No N	Credits available  1 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Credits achieved  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
No. of BREEAM innovation  Seessment Criteria  Man 03  Ene 01 Reduction of Mat03  Wst01	Responsible const Hea 02 Ir of energy use and c Wat 01 Wat Mat01 L 3 Responsible Sour 1 Construction Was Wst02 Rec Wst 05 Adaption to	ruction practices Man 05 Aftercare 12 Visual Comfort ndoor Air Quality carbon emissions ter Consumption ife Cycle Impacts cing of Materials ste Management ycled Aggregates o climate change	No N	Credits available  1 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Credits achieved  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
No. of BREEAM innovation  Seessment Criteria  Man 03  Ene 01 Reduction of Mat03  Wst01	Responsible const  Hea 02 Ir  of energy use and o  Wat 01 Wat  Mat01 L  Responsible Sour  1 Construction Was  Wst02 Reco	ruction practices Man 05 Aftercare 1 Visual Comfort ndoor Air Quality carbon emissions ter Consumption ife Cycle Impacts cing of Materials ste Management ycled Aggregates o climate change  Number of 'ap	No N	Credits available  1 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Credits achieved  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
No. of BREEAM innovation  Seessment Criteria  Man 03  Ene 01 Reduction of Mat03  Wst01	Responsible const  Hea 02 Ir  of energy use and o  Wat 01 Wat  Mat01 L  Responsible Sour  1 Construction Was  Wst02 Reco	ruction practices Man 05 Aftercare 12 Visual Comfort ndoor Air Quality carbon emissions ter Consumption ife Cycle Impacts cing of Materials ste Management ycled Aggregates o climate change  Number of 'ap	No N	Credits available  1 1 1 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Credits achieved  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	