

Code for Sustainable Homes & BREEAM 2011 NC

Pre-Assessment St Paul's School, London

> 1/DNP/131010 Revision 1

Report Prepared For: Hugh Muirhead

Grontmij



Issue	Date	Reason for Issue	Prepa	red	Chec	ked	Appro	oved
1	17 Oct 2013	Planning	DNP	17/10	LA	17/10	LA	17/10

Code for Sustainable Homes & BREEAM NC - Pre-Assessment 1/DNP/131010 Revision 1

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value beyond engineering

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01

Executive Summary

Executive Summary

The proposed new staff accommodation buildings at St Pauls' School in London will contain 33 units in three separate buildings; Blocks A, B & C. The Blocks have been assessed against the latest version of the Code for Sustainable Homes and BREEAM NC 2011 Multi-Residential schemes.

Code for Sustainable Homes is an environmental assessment method for rating and certifying the performance of new homes. Based on the current design, all the self-contained flats in Blocks A, B and C would be able to meet the Code for Sustainable Homes target rating requirements of Level 4.

BREEAM New Construction for non domestic buildings provides a whole building assessment methodology which can also be applied to a building containing self-contained dwellings and communal facilities. Block B, assessed against the BREEAM NC 2011 Multi-Residential scheme would be able to meet the target rating requirements of Excellent.

Both the Code for Sustainable Homes and BREEAM NC 2011 Multi-Residential schemes cover nine categories of sustainable design.



Introduction

2. Introduction

A total of 33 units are proposed in three separate buildings. These units would accommodate the School's staff (and their immediate family). The Lonsdale Road building (Block A) would include 6 three bedroom apartments, 2 two bedroom apartments and 2 studio apartments.

Two blocks of accommodation are proposed along St Paul's School driveway: Block B would accommodate 16 study bedrooms, 2, studio apartments, 2 one-bedroom apartments and 1 two-bedroom apartment and Block C would accommodate 2 two-bedroom apartments.

Code for Sustainable Homes

The Code for Sustainable Homes is an environmental assessment method for rating and certifying the performance of new homes. It replaced EcoHomes in England & Wales as the national standard for use in the design and construction of new homes. It was launched in December 2006 and became operational in April 2007. The latest version is Code for Sustainable Homes November 2010.

The Code for Sustainable Homes covers nine categories of sustainable design:

- · Energy and CO₂ Emissions
- Water
- · Materials
- · Surface Water Run-off
- Waste
- · Pollution
- · Health and Well-being
- Management
- Ecology

An assessment comprises mandatory minimum performance standards such as achieving a minimum 25% improvement in Dwelling Emission Rate over Target Emission Rate as well as tradable requirements such as providing space to store bicycles safely.

A level 4 rating requires a minimum score of 68% and is considered to be equivalent to a BREEAM rating of Excellent.



BREEAM Multi-residential and the Code for Sustainable Homes

BREEAM New Construction for non domestic buildings provides a whole building assessment methodology which can also be applied to a building containing self-contained dwellings and communal facilities.

The New Construction scheme provides a whole building assessment methodology which can also be applied to buildings which contain dwellings assessed under the CSH, but also communal facilities within the same building, to

Where both a Code for Sustainable Homes and a BREEAM assessment are required, to avoid duplication of effort evidence collected for the CSH assessment can be used towards demonstrating compliance with the equivalent BREEAM assessment criteria and vice versa. The latest version is BREEAM New Construction 2011.

BREEAM New Construction covers nine categories of sustainable design:

- Management
- · Health and Well-being
- Energy
- Transport
- Water
- Materials
- Waste
- · Land Use & Ecology
- · Pollution

An assessment comprises mandatory minimum performance standards such as achieving a minimum number of credits for CO_2 emission reduction and water consumption as well as tradable requirements such as providing low NOx emitting space heating equipment.

An Excellent rating requires a minimum score of 70%.



Code for Sustainable Homes Results

Credit Breakdown

PREDICTED RATING - CODE LEVEL: 4

Mandatory Requirements: All Levels

% Points: 70.86% - Code Level: 4

Breakdown: Energy - Code Level: 4

Water - Code Level: 4

Building Performance by Section											
	Environmental weighting	Credits available	Credits achieved	% Achieved	Weighted Score						
Energy	36.4	31	19	61.29	22.30						
Water	9.0	6	4	66.66	6.0						
Materials	7.2	24	17	70.83	5.1						
Surface Water Run-off	2.2	4	2	50.0	1.1						
Waste	6,4	8	8	100.0	6.4						
Pollution	2.8	4	4	100.0	2.8						
Health & Wellbeing	14.0	12	9	75.0	10.5						
Management	10.0	9	9	100.0	10						
Ecology	12,0	9	5	55.0	6.66						
			Tot	al CfSH Score	70.86%						





4. BREEAM NC Results

Credit Breakdown

BREEAM 2011 New Construction Assessment Report: Rating & Key Performance Indicators	BREFAM
This assessment and indicative BREEAM ryting is not a formal certified BREEAM assessment or rating and must not be communicated as such. The score presented is indicabased on a simplified pre-formal BREEAM assessment and univerfied commitments given at an early stage in the design process.	tive of a buildings potential performance and is
Overall Indicative Building Performance	
Quilting come St Paul's School - Block is	
tudicative building is some (No. 72.58%)	
indicative distantiating Pre-Assessment result indicates potential for Distant Excellent outling	

Building Performance by Section											
	Environmental weighting	Credits available	Credits achieved	% Achieved	Weighted Score						
Management	12.0	22	17	77.27	9.27						
Health & Wellbeing	15.0	16	13	81.25	12.19						
Energy	19.0	27	17	62.96	11.96						
Transport	8.0	9	6	66.66	5.33						
Water	6.0	9	7	77.77	4.67						
Materials	12.5	13	8	61.53	7.69						
Waste	7.5	6	4	66.66	5.00						
Land Use & Ecology	10	10	6	60.00	6.00						
Pollution	10	13	11	84.61	8.46						
Innovation	10	10	2	20.00	2.00						
			Total BI	REEAM Score	72.58%						



O5 Appendix

Appendix



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Results Development Name: St Paul's School Dwelling Description: Name of Company: Grontmij Code Assessor's Name: David Partington Company Address: 1 Bath Road, Maidenhead, Berkshire, SL6 4AQ Notes/Comments: Typical Apartment

PREDICTED RATING - CODE LEVEL: 4

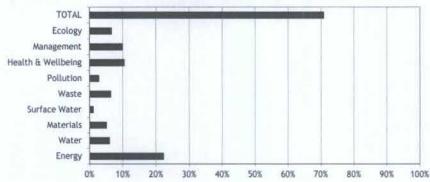
Mandatory Requirements: All Levels

 % Points:
 70.86%
 - Code Level: 4

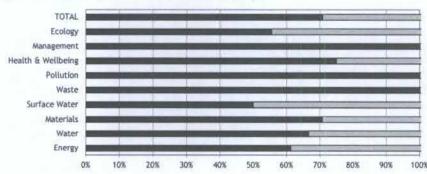
 Breakdown:
 Energy
 - Code Level: 4

 Water
 - Code Level: 4

Graph 1: Predicted contribution of individual sections to the total score and percentage of total achievable score



Graph 2: Predicted percentage of credits achievable: Total and by Category



NOTE: The rating obtained by using this Pre Assessment Estimator is for guidance only. Predicted ratings may differ from those obtained through a formal assessment, which must be carried out by a licensed Code assessor.

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Code for Sustainable Homes PRE ASSESSMENT ESTIMATOR TOOL

Whilst every care is taken in preparing this estimator, BREG cannot accept responsibility for any inaccuracies or for consequential loss incurred as a result of such inaccuracies arising through the use of the estimator tool.

THE RESERVE OF THE PARTY OF	Y 1 ENERGY	27/21/20/20/20/20/20/20/20/20/20/20/20/20/20/	ll Level: 4	Overall Score	70.86		Evidence Required
	ion Credits Predicted:	61.29		Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
Ene 1		ased on the percentage			Level 4	Mandatory requirement to achieve a 25% reduction in	required.) The predicted improvement over 2006 Part L is almost
Dwelling Emission Rate	calculated using SAP 7 apply. The Code ene predicted score.		for each Code leve sed to calculate a	3		Dwelling Emission Rate (DER) over the Target Emission Rate using SAP 2009 software. 25% achieves 3 credits, 36% achieves 4 credits. DER can be based on either an individual apartment or as an area weighted average of all the apartments within each block.	equivalent to the 25% improvement under 2010 Part L.
	The same and the s	predicted number of credit t CO ₂ emissions achieved?	3.0	3.0 of 10 Credits	Level 4		
Ene 2 Fabric Energy Efficiency	(kWh/m²/yr) of the dw 5 and 6. The Code e predicted score. Enter the predicted score Apartments OR End terrace OR Staggered M	Mid-terrace , Semi and Detached	apply at Code levels ised to calculate a		(A)	Fabric Energy Efficiency (FEE) can be based on either an individual apartment or as an area weighted average of all the apartments within each block. Use whichever is most beneficial. A FEE score of 48kWh/m2/year achieves 3 credits, 43kWh/m2/year achieves 5 credits.	
Ene 3 Energy Display Devices	Device is installed mon consumption. Select whether the EDD	where a correctly specification electricity and/or properties and/or fuel —	primary heating fuel			Compliant Energy Display Devices are available.	
	None Specif Primary Hea OR Electricity of OR Electricity a	ting only	0 0	2 of 2 Credits			

Issue		Credits	Level	Assumptions Made	Evidence Required
Ene 4	One credit is awarded for the provision of either internal or external secure drying space with posts and footings or fixings capable of holding 4m+ of drying line for 1-2 bed dwellings and 6m+ for dwellings with 3 bedrooms or greater. Will drying space meeting the criteria be provided? Yes OR NO	0 of 1 Credits		Possible to include a drying line in each bathroom. Also possible to include one in the studio & one bed apartments but where there is only a shower room, this may be impractical.	
Ene 5 Energy Labelled White Goods	Credits are awarded where each dwelling is provided with either information about the EU Energy Labelling Scheme, White Goods with ratings ranging from A+ to B or a combination of the previous according to the technical guide. Select the appropriate option below EU Energy labelling information only A+ rated appliances A rated washing machine and dishwasher B rated tumble dryer or washer dryer EU Energy labelling information provided	2 of 2 Credits	¥	Both credits can only be achieved if A+ rated fridges, freezers, fridges/freezers are supplied AND either an A rated washing machine or dishwasher AND the EU labelling scheme leaflet is provided. The provision of a washer/dryer instead of a washing machine is not sufficient.	
Ene 6 External Lighting	Credits are awarded based on the provision of space lighting* with dedicated energy efficient fittings and security lighting fittings with appropriate control gear Space Lighting None provided OR Non Code compliant lighting OR Code compliant lighting None provided OR Non Code compliant lighting OR Code compliant lighting OR Security Lighting OR Non Code compliant lighting OR OR Non Code compliant lighting OR Code compliant lighting and controls Oual lamp luminaires Compliant with both above criteria	2 of 2 Credits	8	If the scheme is targeting a Secure by Design (SBD) certificate or is aiming to meet Section 2 only of the SBD scheme, the SBD scheme requirements take precedence.	

Issue		Credits	Level	Assumptions Made	Evidence Required
Ene 7 Low or Zero Carbon Technologies	Credits are awarded where there is a 10% or 15% reduction in CO ₂ emissions resulting from the use of low or zero carbon technologies. Select % contribution made by low or zero carbon technologies Less than 10% of demand OR 10% of demand or greater OR 15% of demand or greater	2 of 2 Credits		20% contribution from renewables.	
Ene 8 Cycle Storage	Credits are awarded where adequate, safe, secure and weather proof cycle storage is provided according to the Code requirements. Fill in the development details below Number of bedrooms: Number of cycles stored per dwelling* * if you have storage for 1 cycle per two dwellings insert 0.5 in number of cycles stored per dwelling	2 of 2 Credits		Assume residents will have access to the cycle store in Block B.	
Ene 9 Home Office	A credit is awarded for the provision of a home office. The location, space and services provided must meet the Code requirements. Will there be provision for a Home Office? Yes OR NO O	1 of 1 Credits	-	There may not be sufficient space to accommodate the home office furniture as well as all other furniture expected to be in a bedroom/living room. A minimum average daylight factor of 1.5% is also required.	

CATEGOR	Y 2 WATER	Overall Level: 4	Overall Score	70.86		Evidence Required
	% of Section Credits Predicted: 66.66 Contribution to Overall Score; 6.00 points		Credits 4 of 6 Credits	Level 4	Assumptions Made	(The below cells can be formatted by assessors if required.)
Wat 1 Indoor Wate Use	Credits are awarded based on the precedit water consumption, calculated using the Tool. Minimum standards for each code leads of the predicted water use / Mandatory Research than 120 litres / person OR Less than 120 litres / person OR Less than 110 litres / person OR Less than 105 litres / person OR Less than 90 litres / person OR Less than 80 litres / person / OR Less than 80 litres / person /	ee Code Water Calculator evel apply. equirement on/ day / day / day / day day day day	3 of 5 Credits	Level 3 AND Level 4	The Water Efficiency Calculator for New Dwellings methodology is used to calculate the water consumption per person per day based on the sanitaryware and and white goods specified within each apartment. It is a mandatory requirement to achieve at least 105L/person/day if a Level 4 rating is targeted. This achieves 3 credits.	
Wat 2 External Water Use	A credit is awarded where a complian collecting rainwater for external irrigal outdoor space is provided the credit can Select the scenario that applies No internal or communal outdoor space with collection OR Outdoor space without collection or communal outdoor space without collection or communication or commu	tion purposes. Where no be achieved by default. door space on system	1 of 1 Credits		If there is no communal internal/outdoor space provided then the credit can be claimed by default. There appears to be space between Blocks B & C and to the east of Block B. Possibly water butts will be required to achieve the credit.	

CATEGORY	/ 3 MATERIALS	Overall Level: 4	Overall Score	70.86		Evidence Required
% of Section Credits Predicted: 70.83 Contribution to Overall Score: 5.10 points		Credits 17 of 24 Credits	Level All Levels	Assumptions Made	(The below cells can be formatted by assessors if required.)	
Mat 1 Environm- ental Impact of Materials	Mandatory Requirement: At least three elements must achieve a Green Guide Tradable Credits: Points are awarded Green Guide Rating of the specificaticalculator can be used to predict a pote. Mandatory Requirement Will the mandatory requirement Finter the predicted score What is the predicted number.	2008 Rating of A+ to D. on a scale based on the ons. The Code Materials ntial score.		All Levels	Every element achieving a B rating will achieve 5 credits. Every element achieving an A rating will achieve 10 credits. Every element achieving an A+ rating will achieve 15 credits. Typically, precast reinforced upper floor slabs are rated as D or E. 4 out of the 5 elements achieving an A rating achieves 8 credits.	
Mat 2 Responsible Sourcing of Materials - Basic Building Elements	Credits are awarded where materials u elements are responsibly sourced. The can be used to predict a potential score. Enter the predicted Score What is the predicted numbe	Code Materials Calculator	4 of 6 Credits	-	Every element sourced from suppliers with an EMS such as ISO 14001 would achieve 2 credits. 3 or 4 credits should be achievable.	
Mat 3 Responsible Sourcing of Materials - Finishing Elements	Credits are awarded where material elements are responsibly sourced. The can be used to predict a potential score. Enter the predicted Score What is the predicted number	Code Materials Calculator	3 of 3 Credits		Almost all timber nowadays is certified as FSC or equivalent hence a minimum of 2 credits at least should be achievable.	

CATEGORY 4 SURFACE WATER RUN-OFF Overall Level: 4 % of Section Credits Predicted: 50.00% Contribution to Overall Score: 1.10 points	Overall Score Credits 2 of 4 Credits	Level	Assumptions Made	Evidence Required (The below cells can be formatted by assessors if required.)
Sur 1 Management of Surface Water Run-off from developments Managements Management of Surface Water Run-off from development site and that the additional predicted volume of rainwater discharge caused by the new development is entirely reduced as far as possible in accordance with the assessment criteria. Designing the drainage system to be able to cope with local drainage system failure. Tradable Credits: Where SUDS are used to improve water quality of the rainwater discharged or for protecting the quality of the receiving waters.			Unless the design cleans up any rainwater before leaving site or is designed to contin all rainflow up to 5mm on site, no credits can be achieved.	Mandatory requirement achieves no credits.
Mandatory Requirement — Will the mandatory requirement be met?				
Select the appropriate option No SUDS No runoff into watercourses for the first 5 mm of rainfall				
Runoff from hard surfaces will receive an appropriate level of treatment	0 of 2 Credits	All Levels		
Sur 2 Flood Risk Credits are awarded where developments are located in areas of low flood risk or where in areas of medium or high flood risk appropriate measures are taken to prevent damage to the property and its contents in accordance with the Code criteria in the technical guide. Select the annual probability of flooding (from PPS25*)				
Zone 1 - Low OR Zone 2 - Medium OR Zone 3 - High				
Select the apropriate option(s) Low risk of flooding from FRA** All measures of protection are demonstrated in FRA Ground floor level and access routes are 600 mm above design flood level	2 of 2 Credits	*		
* Planning Policy Statement 25 - Planning and Flood Risk ** FRA - Flood Risk Assessment				

CATEGORY	SERVING SERVICE	Overall Level:	4	Overall Score	70.86		Evidence Required
190000000000000000000000000000000000000	n Credits Predicted: 100.		20	Credits	Level	Assumptions Made	(The below cells can be formatted by assessors if
THE RESERVE OF THE PERSON NAMED IN		points		8 of 8 Credits	All Levels		required.)
Was 1 Storage of non recyclable waste and recyclable household waste	should be sized to hold the provided by the Local Auti from 85 5906. Tradable internal and/ or external re Mandatory Requirement Will the minimum sp be accessible to disal	hority or the min capacity of Credits are awarded for cycling facilities. ace be provided and bled people? I waste storage — ternal recyclable waste	containers calculated			The mandatory requirement relates to normal household waste. The 4 credits can be achieved by providing each apartment with a dedicated recycle bin in a kitchen cupboard. Whether Richmond sorts the recycled post or pre-collection determines the type of internal storage bin.	Mandatory requirement achieves no credits.
	scheme	manufacture and a second					
				0 of 2 Credits			
	Internal storage (cap	acity 60 litres)		o or 2 credits			
	Local Authority collection Scho	eme —	_				
	Post Collection sortin Internal storage (cap Pre-collection sorting Internal storage (3 se	acity 30 litres)		4 of 4 Credits	All Levels		
	External Storage, no Local Aut	thority collection scheme -	_				
	3 separate internal si (capacity 30 litres) AND	torage bins					
	Houses	e e e e e e e e e e e e e e e e e e e		and the second			
	External Storage(cap	acity 180 litres)		0 of 4 Credits			
		SECULA :					
	Private recycling ope						
	3 or greater types of	waste collected					

Issue		Credits	Level	Assumptions Made	Evidence Required
Was 2 Construction Site Waste Wanagement	A credit is awarded where a compliant SWMP is provided with targets and procedures to minimise construction waste. Credits are available where the SWMP include procedures and commitments for diverting either 50% or 85% of waste generated from landfill. SWMP details Does the SWMP include: + No SWMP • SWMWP with targets and procedures to minimise waste? • SWMMP with procedures to divert 50% of waste • SWMMP with procedures to divert 85% of waste	3 of 3 Credits		A SWMP with 85% of waste diverted from landfill is typically achievable.	
Was 3 Composting	A credit is awarded where individual home composting facilities are provided, or where a community/ communal composting service, either run by the Local Authority or overseen by a management plan is in operation. Select the facilities available No composting facilities Individual composting facilities OR Communal/ community composting*? Local Authority OR Private with management plan * including if an automated waste collection system is in place	1 of 1 Credit	100	A communal composting scheme is not recommended but the credit may be available as Richmond run a garden waste & kitchen waste collection scheme.	

THE RESERVE TO SERVE THE PARTY OF THE PARTY	RY 6 POLLUTION ion Credits Predicted: 100,00%	Overall Level: 4	Overall Score	70.86 Level	Assumptions Made	Evidence Required (The below cells can be formatted by assessors if
Contribut	tion to Overall Score: 2,80 points		4 of 4 Credits	All Levels		required.)
Pol 1 Global Warming Potential (GWP) of Insulants	A credit is awarded where <u>all</u> ir substances (in manufacture AND ins less than 5. Select the most appropriate option— All insulants have a GWP OR Some insulants have a GWP OR No insulants have a GWP	tallation) that have a GWP of less than 5 P of less than 5	1 of 1 Credits	(*)	Most well known insulation has a GWP less than 5.	
Pol Z NOX Emissions	Credits are awarded on the basis of the operation of the space and water dwelling. Select the most appropriate option Greater than 100 mg/kWh OR Less than 100 mg/kWh OR Less than 70 mg/kWh OR Less than 40 mg/kWh OR Class 4 boiler OR Class 5 boiler OR All space and hot requirements are met be not produce NOx emission	water energy y systems who do	3 of 3 Credits		The space heating & DHW system will determine whether any credits can be achieved. Heating from Air Source Heat Pumps will achieve 0 credits however as it uses Mains electricity. CHP may require a catalytic converter.	

% of Secti	7 7 HEALTH & WELLBEING Overall Level: 4 on Credits Predicted: 75,00% on to Overall Score: 10,50 points	Overall Score Credits 9 of 12 Credits	70.86 Level No level	Assumptions Made	Evidence Required (The below cells can be formatted by assessors if required.)
Hea 1 Daylighting	Credits are awarded for ensuring key rooms in the dwelling have high daylight factors (DF) and a view of the sky. Select the compliant areas Room Kitchen: Avg DF of at least 2% Living Room*: Avg DF of at least 1.5% Dining Room*: Avg DF of at least 1.5% Study*: Avg DF of at least 1.5% Study*: Avg DF of at least 1.5% Any room used for Ene 9 Home Office must also achieve a min DF of 1.5%.	1 of 3 Credits		Requires daylight factor calculations. Typically kitchens struggle to achieve 2% but might be okay in this instance. As a minimum, I would think each apartment could achieve at least 1 out of the 3 credits available.	
Hea 2 Sound Insulation	Credits are awarded where performance standards exceed those required in Building Regulations Part E. This can be demonstrated by carrying out pre-completion testing or through the use of Robust Details Limited. Select a type of property Detached Property Attached Properties: - Separating walls and floors only exist between non habitable spaces - Separating walls and floors exist between habitable spaces Select a performance standard Performance standard Airborne: 3db higher; Impact: 3dB lower OR Airborne: 5db higher; Impact: 5dB lower OR Airborne: 8db higher; Impact: 8dB lower	3 of 4 Credits	-	5dB achieves 3 credits, 8dB achieves 4 credits.	

Issue		Credits	Level	Assumptions Made	Evidence Required
Hea 3 Private space	A credit is awarded for the provision of an outdoor space that is at least partially private. The space must allow easy access to all occupants. Will a private/ semi-private space be provided? Yes, private/semi-private space will be provided OR No private/semi-private space	1 of 1 Credits	2-		
Hea 4 ifetime domes	Mandatory Requirement: Lifetime Homes is mandatory when a dwelling is to achieve Code Level 6. Tradable credits: Credits are awarded where the developer has implemented all of the principles of the Lifetime Homes scheme. Mandatory Requirement Dwelling to achieve Code Level 6? Lifetime Homes Compliance All Lifetime Homes criteria will be met OR Exemption from LTH criteria 2/3 applied Credit not sought	4 of 4 Credits	No level	Each apartment would have to meet the 16 criteria necessary to achieve a Lifetime Homes certificate.	

% of Section	/ 8 MANAGEMENT Overall Level: 4 on Credits Predicted: 100.00%	Overall Score Credits	Level	Assumptions Made	Evidence Required (The below cells can be formatted by assessors if
A DOMESTIC AND A STATE OF	on to Overall Score: 10,00 points	9 of 9 Credits	All Levels		required.)
Man 1 Home User Guide	Credits are awarded where a simple guide is provided to each dwelling covering information relevant to the 'non-technical' home occupier, in accordance with the Code requirements. Tick the topics covered by the Home User Guide Operational Issues? Site and Surroundings? Is available in alternative formats?	3 of 3 Credits			
Man 2 Considerate Constructors Scheme	Credits are awarded where there is a commitment to comply with best practice site management principles using either the Considerate Constructors Scheme or an alternative locally/nationally recognised scheme. Select the appropriate scheme and score No scheme used Considerate Constructors OR Best Practice: Score between 24 and 31.5 OR Best Practice+: Score between 32 and 40 Alternative Scheme* OR Mandatory + 50% optional requirements OR Mandatory + 80% optional requirements * In the first instance, contact a Code Service Provider If you are	2 of 2 Credits		The Considerate Constructor Scheme changed on 1 January 2013. a score of 35 out of 50 with a minimum score of 7 in each category is required to achieve 2 credits. Typically this is achievable.	
Man 3 Construction Site Impacts	Credits are awarded where there is a commitment and strategy to operate site management procedures on site as following: Tick the impacts that will be addressed Monitor, report and set targets, where applicable, for: CO ₂ / energy use from site activities CO ₂ / energy use from site related transport water consumption from site activities Adopt best practice policies in respect of: air (dust) pollution from site activities water (ground and surface) pollution on site 80% of site timber is reclaimed, re-used or responsibly sourced	2 of 2 Credits		Contractor has to commit to do 4 out of the 6 requirements to achieve 2 credits. Typically achievable.	

Issue		Credits	Level	Assumptions Made	Evidence Required
Man 4 Security	Credits are awarded for complying with Section 2 - Physical Security from Secured by Design - New Homes. An Architectural Liaison Officer (ALO), or alternative, needs to be appointed early in the design process and their recommendations incorporated. Secured by Design Compliance			Secure by Design principles to be met. As a minimum, will each apartmentonly needs to meet section 2 of the Secure by Design scheme.	
	OR Secured by Design Section 2 Compliance	2 of 2 Credits	5.50		

CATEGORY 9 ECOLOGY Overall Level: 4	Overall Score	- DARRENTE		Evidence Required
% of Section Credits Predicted: 55.00% Contribution to Overall Score: 6.66 points	Credits 5 of 9 Credits	Level All Levels	Assumptions Made	(The below cells can be formatted by assessors if required.)
Eco 1 Ecological Value of Site Select the appropriate option Credit not sought OR Land has ecological value OR Land has low/ insignificant ecological value* OR CREDIT OF C		-	Trees greater than 1m high or with trunks greater than 100mm diameter will classify the land as being of ecological value so the credit can't be claimed.	
*Low ecological value is determined either a) by using Checklist Eco 1 acr whole development site; or b) where an suitably qualified ecologist is app and can confirm or c) produces an independent ecological report of the site the construction zone is of low/ insignificant value; AND the rest development site will remain undisturbed by the works.	pointed e, that			
A credit is awarded where there is a commitment to enhance ecological value of the development site. Tick the appropriate boxes Will a Suitably Qualified Ecologist be appointed to recommend appropriate ecological features? AND Will all key recommendations be adopted? AND 30% of other recommendations be adopted?	1 of 1 Credits		Requires the appointment of a suitably qualified ecologist, who, are a fairly cheap way to achieve credits. I have assumed one will be appointed and their recommendations will be followed.	
A credit is awarded where there is a commitment to maintain adequately protect features of ecological value. Type and protection of existing features Site with features of ecological value? OR Site of low ecological value (as Eco 1)? AND All* existing features potentially affected by site works are maintained and adequately protected? "If a suitably qualified ecologist has confirmed that a feature can be removed to insignificant ecological value or poor health conditions, as long all the removed.	0 of 1 Credits		The removal or re-location of any ecological feature (tree) will make this credit unobtainable unless it can be proved the tree was diseased or was a danger to the public.	

Issue		Credits	Level	Assumptions Made	Evidence Required
ECO 4 Change of Ecological Value of Site	Credits are awarded where the change in ecological value has been calculated in accordance with the Code requirements and is calculated to be: Change in Ecological Value Major negative change: fewer than -9 Minor negative change: between -9 and -3 OR Neutral: between -3 and +3 Minor enhancement: between +3 and +9 Major enhancement: greater than 9	3 of 4 Credits		A neutral impact and two credits is typical. An ecologist may be able to achieve an additional credit.	
Eco 5 Building Footprint	Credits are awarded where the ratio of combined floor area of all dwellings on the site to their footprint is: Ratio of Net Internal Floor Area: Net Internal Ground Floor Area Credit Not Sought OR Houses: 2.5:1 OR Flats: 3:1 OR Houses: 3:1 OR Flats: 4:1 OR Houses & Flats Weighted (2.5:1 & 3:1) OR Houses & Flats Weighted (3:1 & 4:1)	1 of 2 Credits		The credit cannot be achieved in Block B & C. 1 credit probably achievable in Block A.	

BREEAM 2011 New Construction Pre-Assessment Estimator

This assessment and indicative BREEAM rating is not a formal certified BREEAM assessment or rating and must not be communicated as such. The score presented is indicative of a buildings

But the second of the second o	Iding pame St Paul's School - Block B
Indicative buildi	19 SEAUR (98) 72.58%
Indicative BR	FAM Fattor Pre-Assessment result indicates potential for BREEAM Excellent rating
Indicative minimum standards le	Pre-Assessment result indicates the minimum standards for Excellent level

	Section 19 and 1	Section Weighting	12.00%		Indicativ	e Section Score	9.27%
n01 Sustainable Procu	rement						
	N.	o. of BREEAM credits available	g	A	voitable contributé	on to overall score	4.36%
		M innovation credits available	1	//5	The second secon	andards applicable	Yes
	300M-110 (3-10).				711	Indicative	
-Assessment question/	criteria			Response	Credits available		
3.88 N. 1	Will roles, responsibilities and a training s			Yes	1	60 // E 1	
	/ill a BREEAM AP be appointed at RIBA stage A/	B and performance targets contri	actually agreed?	No No	1 1	0	
	Will a BREEAM AP be appointed to mo Willa BREEAM AP be appointed to me	onitor and report progress during	RIBA stage F-L7	Yes	1	1	
	Will a thermographic survey be o	conducted and any defects uncoy	rared remedied?	Yes	EMPE)	1	
		ommissioning of building services ommissioning of building services		Yes	1	1	
	will complaint seasonal or Vill water/energy consumption data be recorde			Yes	i	1	
	Will water/energy consumption be a			Yes	1	1	
	Total indica	tive BREEAM credits achieved	6				
	Fotal indicative contrib	ution to overall building score	3.27%				
	Total indicative BREEAL	M innovation credits achieved	2				
Terre de la companya	Indicati	ve minimum standard(s) level P	re-Assessment resu	It indicates the	minimum standard	is for Outstanding leve	t e
an02 Responsible Const							1.000
		o, of BKEEAM credits evailable M innovation credits available	2	,		on to overall score andards applicable	1.09% Yes
		required to be used by the print	ripal contractor?	Considerate Con	structors Scheme		
-Assessment question/ Which o	enteria considerate construction scheme will be used on For the required scheme, what will be the targ			Considerate Cons			
	considerate construction scheme will be used on For the required scheme, what will be the targ	get performance level set for the	site/contractor?				
	considerate construction scheme will be used on For the required scheme, what will be the targ Total indica	get performance level set for the stive BREEAM credits achieved	site/contractor? A				
	considerate construction scheme will be used on For the required scheme, what will be the targ Total indicative contrib Total indicative contrib	get performance level set for the stive BREEAM credits achieved jution to overall building score	site/contractor?				
	considerate construction scheme will be used on For the required scheme, what will be the targ Total indica Total indicative contrib Total indicative BREEAI	get performance level set for the stive BREEAM credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding lev	el el
Which o	considerate construction scheme will be used on For the required scheme, what will be the targ Total indica Total indicative contrib Total indicative BREEAI	get performance level set for the stave BREEAM credits achieved sution to overall building score M innovation credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding lev	el el
Which o	considerate construction scheme will be used on For the required scheme, what will be the targ Total indica Total indicative contrib Total indicative BREEAI	get performance level set for the stave BREEAM credits achieved sution to overall building score M innovation credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding lev	ėl .
Which o	considerate construction scheme will be used on For the required scheme, what will be the targ Total indica Total indicative contrib Total indicative BREEAI	get performance level set for the stave BREEAM credits achieved sution to overall building score M innovation credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding lev	ėl
	considerate construction scheme will be used on For the required scheme, what will be the targ Total indica Total indicative contrib Total indicative BREEAI	get performance level set for the stave BREEAM credits achieved sution to overall building score M innovation credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding lev	힘
Which o	considerate construction scheme will be used on For the required scheme, what will be the targ Total indica Total indicative contrib Total indicative BREEAI	get performance level set for the stave BREEAM credits achieved sution to overall building score M innovation credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding lev	헌
Which o	considerate construction scheme will be used on For the required scheme, what will be the targ Total indica Total indicative contrib Total indicative BREEAI	get performance level set for the stave BREEAM credits achieved sution to overall building score M innovation credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding lev	형
Which o	considerate construction scheme will be used on For the required scheme, what will be the targ Total indica Total indicative contrib Total indicative BREEAI	get performance level set for the stave BREEAM credits achieved sution to overall building score M innovation credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding lev	형
Which o	considerate construction scheme will be used or For the required scheme, what will be the targ Total indicative Total indicative contrib Total indicative BREEAI Indicati	get performance level set for the stave BREEAM credits achieved sution to overall building score M innovation credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding lev	형
Which o	considerate construction scheme will be used or For the required scheme, what will be the targ Total indicative Total indicative contrib Total indicative BREEAI Indicati	get performance level set for the stave BREEAM credits achieved sution to overall building score M innovation credits achieved	2 1.09%	CCS score of 36	or more	is for Outstanding leve	현

Man03	Construction	Site	Impacts

Pre-Assessment questi	on/criteria	Response	Credits available	Indicative credits achieved
	Will site energy consumption be metered/monitored?	Yes	1 1 1	1
	Will site water consumption be metered/monitored?	Yes	1 mm 1	1
	Will the transport of construction materials and waste to/from site be measured/monitored?	Yes	1	2.1
	Will timber be sourced in accordance with the Government's Timber Procurement Policy?	Yes	1	100, 100
	Will/does the principal contractor operate a compliant Environmental Management System?	Yes		100
	Will the principal contractor adopt best practice pollution prevention policies & procedures?	Yes		

5	Total indicative BREEAM credits achieved	
2.73%	Total indicative contribution to overall building score	
N/A	Total indicative BREEAM Innovation credits achieved	Statuties - Toyan (co. 1)
N/A	Indicative minimum standard(s) level	

Comments/notes:

BREEAM 2011 New Construction Pre-Assessment Estimator					
Man04 Stakeholder Participation			Aug 1915 turning at 1984		L skar
No. of BREEAM credits available No. of BREEAM innovation credits available	0		Ayailable contributio Minimum sta	on to overall score indards applicable	2.18% Yes
Pre-Assessment question/criteria Will an appropriate level of consultation activit	es ha undertaken?	Response Yes	Credits available	Indicative credits achieved	
Will an access statement be developed and appropriate building user Will building user guides and relevant user inform	facilities provided? ation be provided?	Yes Yes	1 1	1 1	
Will a post occupancy evaluation assessment be undertaken and informa Total indicative RREEAM credits achieved	4	Yes	1	1	
Total indicative GREEARI (innevation gradus achieve Total indicative GREEARI (innevation gradus achieved	2.18% N/A	and the second			
Indicative minimum standard[s] level Comments/notes:	Pre-Assessment resi	uit indicates the	minimum standard	s for Outstanding lev	el
Man05 Life cycle cost and service life planning			S OFFICIAL OR OTHER		
No. of BREEAM credits available No. of BREEAM innovation credits available	0		Available contribution Minimum sta	on to overall score indures applicable	1.64% No
Pre-Assessment question/criteria Will a feasibility stage Life Cycle Cost (LCC) analysis be commissione		Response No	Credits available		
vrm a reasoniny stage the Cyon could plan strategic and system (each plan by commission Will a strategic and system (each LCC be commissione Will a technical design LCC to be commissione	d and completed?	No No	1 1 1	0 0	
Total Indicative BREEAM credits achieved Total indicative contribution to overall building score	0.00%				
Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A				
Comments/notes:					
		7.			
HEALTH & WELLBEING Section Weighting	15.00%		Indicative	e Section Score	12.19%
Hea01 Visual Comfort No. of BREFAM credits available	3		Available contributio	n to overall score	2.81%
No. of BREEAM innovation credits available	1		Minimum sta	ndards applicable	Yes
Pre-Assessment question/criteria Will all fluorescent lamps be litted with high f		Response Yes	Credits available	credits achieved N/A	
Will all relevant building areas be designed to achieve the appropriate Will the design provide adequate glare control and view out Will internal/external lighting be specified in accordance with the relevant CIBSE Guides/	for building users?	Yes Yes Yes	1 1 1	1 1	
Will all relevant building areas be designed to achieve exemplary level		No	1	0	
Total Indicative BREEAM credits achieved Total Indicative contribution to overall building score Total Indicative BREEAM innovation credits achieved.	2.81% 0				
Indicative minimum standard(s) level		it indicates the	minimum standards	for Outstanding leve	1
Comments/notes:					

BREEAM 2011 New Construction Pre-Assessment Estimator				
Hea02 Indoor Air Quality				
No. of BREEAM credits available	4		Available contribution to overall score	3,75%
No. of EREEAM innovation credits available	0		Minimum standards applicable	No
Pre-Assessment question/criteria		Response	Indicative Credits available credits achieved	
Will an air quality ; Will the building be designed to minimise sources of inte		Yes	1 0	
Will the relevant products be specified to meet the VOC testing and emissio Will formaldehyde and total VOC levels be measured a	n levels required?	Yes Yes	1 1	
Will the building be designed to, or have the potential to provide, no		Yes		
Total indicative BREEAM credits achieved	3			
Total Indicative contribution to overall building score Total Indicative BREEAM innovation credits achieved	2.81% N/A			
Indicative minimum standard(s) level	N/A			
Comments/notes:				
Hea03 Thermal Comfort				
No. of BREEAM credits available	2		Available contribution to overall score	1.88%
No. of BREEAM innovation credits available	0		Minimum standards applicable	No
Pre-Assessment question/criteria		Response	Indicative Credits available credits achieved	
Will thermal modelling of the desi Will the modelling inform the development of a thermal zoning and		Yes Yes	1 1	
Total indicative BREEAM credits achieved	2	7.00		
Total indicative contribution to overall building score	1.88%			
Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A			
Comments/notes:				
Hea04 Water Quality				
No. of BREEAM credits available	4		Available contribution to overall score	0.94%
No. of BREEAM innovation credits available	0		Minimum standards applicable	Yes
			Indicative	
Pre-Assessment question/criteria Will all water systems be designed to comply with the relevant HSE Approved Code of Practi	ice and Guidance?	Response Yes	Credits available credits achieved	
Where humidification is to be provided, will a failsafe humidification sys Will a wholesome supply of accessible, clean and fresh drinking water be supplied i		Yes		
Total indicative EREEAM credits achieved	i			
Total indicativo contribution to overall building score Total indicative BREEAM innovation credits achieved	0.94% N/A			
		sult indicates th	e minimum standards for Outstanding le	vel
Comments/notes:				
Hea05 Acoustic Performance				
Hea05 Acoustic Performance No. of BREEAM credits available	4		Available contribution to overall score	3.75%
	4 0		Available contribution to overall score Minimum standards applicable	3.75% No
No. of BREEAM credits available No. of BREEAM innovation credits available	4,	Response		
No. of BREEAM credits available		Response Yes Yes	Minimum standards applicable	

BREEAM 2011 New Construction Pre-Assessment Estimator ntribution to overall building score 2.81% Total indicative BREEAM innovation credits achieved N/A Indicative minimum standard(s) level N/A Comments/notes: Airborne & Impact Sound in individual bedrooms & self contained flats to be 5dB beyond Part E 2010 requirements. Hea06 Safety and Security No. of BREEAM credits available 2 Available contribution to overall score 1.85% No. of BREEAM innovation credits available 0 Minimum standards applicable No No Indicative Pre-Assessment question/criteria Credits available credits achieved No Total indicative BREEAM credits achieved 1 Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level 0.94% N/A N/A Comments/notes: Secure by Design and Secure Parking schemes requirements to be met. Section Weighting 19.00% Indicative Section Score 11.96% ENERGY Ene01 Reduction of CO₂ Emissions No. of BREEAM credits available 15 Available contribution to overall score 10.56% 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 ct the target number of BREEAM credits for the EneO1 issue. BREFAM I Enebl Calculator FaeQ1 Calculates and Key Performance indicators Motional Linking weergy demonst According to target demand Monte on the state of the state KNYh/m2/annom lgCiP7(m2/ancum rgCii2/m2/annum Building Follows From (CTT) Building Policy Common Deat TTA Genral Europe Policy Common Ratio (EPR) Compunication Being Policy Common Ratio (EPR) Common Common Policy For Common Ratio (EPR) Describ Building Common Portformanica Ratio (EPR) to meet an upo de mand finite 'unregulates' building systems or processor' is the building designed to be cutton negative." Total indicative BREEAM credits achieved 7 Total indicative contribution to overall building score 4.93% Total indicative BREEAM innovation credits achieved Intifactive minimum standard(s) level Pre-Assessment result indicates the minimum standards for Excellent level A minimum of 6 credits is mandatory for an Excellent rating based on Primary Energy Consumption. A minimum Building Emission Rate of 25% Improvement over the target Emission rate is required. The self contained flats are not included in the calculations as they will be assessed using SAP 2009 and not SBEM. **Ene02 Energy Monitoring** No, of BREFAM credits available 1 Available contribution to overall score 0.70% No. of BREEAM innovation credits available [10] Minimum standards applicable Yes

BREEAM 2011 New Construction Pre-Assessment Estimator Pre-Assessment question/criteria Credits available credits achieved Yes 1 Total indicative contribution to overall building score 0.70% Total indicative BREEAM innovation credits achieved N/A Indicative minimum standard(p) level Pre-Assessment result indicates the minimum standards for Outstanding level Assume a BMS system will be installed to enable energy use by residents to be individually metered. Ene03 External Lighting No. of BREEAM credits available 1 Available contribution to overall score 0,70% No. of BREEAM innovation credits available 0 Minimum standards applicable No Credits available credits achieved Pre-Assessment question/criteria Will external light fittings and controls be specified in accordance with the BREEAM criteria? Yes Total indicative EREEAM credits achieved 0.70% N/A N/A For buildings with self-contained dwellings also being assessed under the Code for Sustainable Homes (CSH), the following applies Where the external space lighting credit for issue Ene 6 of the CSH has been achieved, the credit available for issue Ene 03 of the Multi-residential scheme is also achieved for the same external areas. Any external space lighting outside of the scope of CSH issue Ene 6, but within the wider scope of the Multi-Residential scheme, must comply with the requirements of either CSH issue Ene 6 or BREEAM issue Ene 03 to achieve the credit. CfSH Ene 6 is targeted. Ene04 Low and Zero Carbon Technology Available contribution to overall store 3.52% No. of BREEAM innovation credits available m standards applicable Yes Indicative credits achieved Pre-Assessment question/criteria iant LZC feasibility study to be undertake Yes What will be the intended scope of the feasibility study? Whole life cycle carbon savings/emissions accountsion on reduction in whole life cycle CO2 emissions 10,00% 2 1 ne or more LZC energy sources Building is cooled mechanically, not utilising 'free' cooling Total indicative BREEAM credits achieved 3 Total indicative contribution to overall building score 2.11% Total indicative BREEAM innovation credits achieved 0. hidicative minimum standard(s) level Pre-Assessment result indicates the minimum standards for Outstanding level Assessment Issue Not Applicable Ene05 Energy Efficient Cold Storage Available contribution to overall score N/A No. of BREEAM credits available N/A No. of BREEAM innovation credits available N/A Minimum standards applicable N/A Indicative Credits available credits achieved Pre-Assessment question/criteria Total indicative BREFAM credits achieved N/A N/A Potal indicative contribution to overall building score N/A N/A

Comments/notes

No. of BREEAM credits available 2 Available contribution to overall score 1.41% No. of BREEAM innovation credits available 0 Minimum standards applicable No. Significant	BREEAM 2011 New Construction Pre-Assessment Estimator					
Total Control Advisors of question (Control Advisors of questions) Total Indignates (MISSAM CONTROL ADVISORS) Total Indignates (MISSAM CONTROL ADVISORS)						17 - 1822a
Total production of the field of the production of the field of the production of the field of t						
No. of DETERMATION PROTECTION CONTROL AND CONTROL OF THE CONTROL O						
Pre-Assassment question/vitaria Was stree-pointering splits analysis to partial of the deficiency interesting the greatest of the standard of	No. of BREEAM credits available	2				1.41%
Will a transport for the problem who who has been and a facility of the control of the problem of the control of the problem of the control of the problem o	No. of EREEAM innovation credits available	0		Minimum sta	THE STATE OF THE S	N/A
Total indication contribution to coveral fluiding core 2 2 2 2 2 2 2 2 2	Will a transportation system analysis be carried out to determine the optimum numbe		Yes	1	credits achieved	
Total Industrials BIESAM Amendors on Initials allowed Information (Initial Information Inf	Total indicative BREEAM credits achieved.	i ž	res		1	
Energy Efficient Laboratory Systems Tool of SELEAM confer weeklink No. of SELEAM confer weeklin	Total indicative BREEAM innovation credits achieved	N/A				
Total indicate with infection for the major contributor to fungoised design as: No. of BREEAM innovation credit available N/A Moliment standards applicable N/A N/A		JMD				
No. of BREAM messars available						
No. of BREAM messars available						
Total indicate with infection for the major contributor to fungoised design as: No. of BREEAM innovation credit available N/A Moliment standards applicable N/A N/A						
Pre-Assessment question/criteria Response Credits available credits achieved Total indicates a BIEFAM credits achieved Total indicates achieved Total indicates achieved NA Total indicates achieved Total indicates achieved NA Total indicates achieved Total indicates achieved NA Total indicates achieved NA Total indicates achieved Total indicates achieved NA Total indicates achieved Total indicates achieved NA Total indicates achieved NA Total indicates achieved Total indic		\$1/A				
Pre-Assessment question/criteria Total indicative BRIEAM credits visible Total indicative BRIEAM credits visible Total indicative scanification to overall building scene Total indicative selection to overall building scene Total indicative minimum standard() level N/A Total indicative minimum standard(ndards applicable	
Total indirative BIEFAM credit sehieved N/A Total indirative SRESAM movestore control busing some N/A Total indirative SRESAM movestore credits subserved N/A Indirative SRESAM movestore credits subserved N/A Indirative SRESAM movestore credits subserved N/A No. of SRESAM movestore credits subserved N/A No. of SRESAM minorative credits subserved N/A No. of SRESAM credits subserved N/A Total indicative contributors SRESAM credits subserved N/A Total indicative contributors of subserved N/A To	Pre-Assessment question/criteria				credits achieved	
Total indicative contribution to overall building some Total indicative contribution to overall building some Total indicative setting to overall building some Total indicative setting some standardical level Indicative minimum standardical level N/A Comments/notes: No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM indicates available No. of BREEAM	とする。Macadan advents (中間 2015年2月1日 2015年2月1日 2015年2月2日 1日 2015年2月1日 1日 2015年2月2日 1日 2015年2月 1日 2015年					
Total indicative BREEAM credits achieved N/A Total indicative contribution to overall building zone N/A Total indicative BREEAM invoization readits achieved N/A Indicates minimum standard(s) level N/A Comments/notes: Enoül Energy Efficient Equipment No. of BREEAM credits available No. of BREEAM credits availab						
Total indicative BREEARI credits achieved N/A Total indicative Contribution to overall building score N/A Total indicative BREEARI credits achieved N/A Indicative MEEARI credits available N/A Comments/notes: No. of BREEARI credits available 2 Available contribution to overall score N/A No. of BREEARI credits available 2 Available contribution to overall score N/A No. of BREEARI credits available 0 Minimum standards applicable No More BREEARI credits available 1 Available contribution to overall score N/A Pre-Assessment question/criteria Significant majority Which of the following will be present and likely to be a/the major contributor to 'unregulated' energy use: Small power/phg in aquipment Yes Yes Yes Yes Yes Yes Yes Yes						
Total indicative contribution to overall building some Total indicative extra contribution to overall building some N/A Total indicative extra contribution to overall building some N/A Indicate minimum standard(s) lived N/A Comments/notes: No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits a single contribution to overall score No. of BREEAM innovation credits a single contribution to overall score No. of BREEAM innovation credits a single contribution to overall score No. of BREEAM innovation credits a single contribution to overall score No. of BREEAM innovation credits a single contribution to overall score No. of BREEAM innovation credits a single contribution to overall score No. of BREEAM innovation credits a single contribution to overall score Significant majority Present Ves Ves No. 160 Total indicative contribution to overall score No. 160	St. 10 P.C., 180, Abril agreement for not 25, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20	and the second				
Total indicative contribution to overall suiding sore Total indicative BREEAM innovation credits aichieved N/A Indicative BREEAM innovation credits aichieved N/A Comments/notes: No. of BREEAM credits aixallable 2	######################################	maraga Maragara				
Encol Energy Efficient Equipment No. of BREAM circles available No. of BREAM circles available No. of BREAM circles available No. of BREAM innovation gredits available No. of Bream innovation gredi	Total indicative contribution to overall building score	N/A				
EneOB Energy Efficient Equipment No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available Significant majority Present Significant majority Present contributor Yes Yes Yes No. No. No. Total indicative contributors of our regulated one rigy use compliance? Total indicative soft indicative soft in our regulated one rigy use (shows) meet the BREEAM criteria Total indicative soft indicative soft indicative compliance? Total indicative BREEAM criteria achieved Total indicative BREEAM criteria achieved Total indicative soft insulation to overall building score 1.41%						
No. of BREEAM innovation credits available Significant majority Contributor Yes Yes Yes No. Ho. Communal laundry: Data centre' IT-intensive operation areas: Residential areas: No. Ifc. Residential areas: No. Ifc.	Comments/notes:	A SECOND PROPERTY.				
No. of BREEAM innovation credits available Significant majority Contributor Yes Yes Yes No. Ho. Communal laundry: Data centre' IT-intensive operation areas: Residential areas: No. Ifc. Residential areas: No. Ifc.						
No. of BREEAM credits available 2 Available contribution to overall score 1.43% No. of BREEAM innovation credits available 0 Minimum standards applicable No Significant majority Contributor Small power/ping in equipment? Swimming pool? Communal laundry? Data centre? IT intensive operation areas? Residential areas? Residential areas? Healthcare? Kitchen and catering facilities? Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the BREEAM criteria? Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the BREEAM criteria? Total indicative BREEAM criteria? Total indicative BREEAM criteria? 2 Total indicative BREEAM criteria? 2 Total indicative contribution to overall building score 1.41%						
No. of BREEAM innovation credits available 0 Minimum standards applicable No Pre-Assessment question/criteria Which of the following will be present and likely to be a/the major contributor to 'unregulated' energy use: Small power/plug in equipment? Small power/plug in equipment? Small power/plug in equipment? Small power/plug in equipment? No 160 Communal leundry? Present Yes Yes Yes No 160 Residential areas? Heatthcare? No 160 Kitchen and catering facilities? Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the BREEAM criteria? Total indicative contribution to overall building score 2 Total indicative contribution to overall building score 1.41%	Ene08 Energy Efficient Equipment					
Pre-Assessment question/criteria Which of the following will be present and likely to be a/the major contributor to 'unregulated' energy use: Small power/plug in equipment? Small power/plug in equipment? Small power/plug in equipment? Communal heurdry? Data centre? No 150 Residential areas? Heatthcare? No 150 Kitchen and catering facilities? Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the SREEAM criteria? Total indicative contribution to overall building score 2 Total indicative contribution to overall building score 1.41%		0				
Which of the following will be present and likely to be a/the major contributor to 'unregulated' energy use: Small power/plug in equipment? Small power/plug in equipment? Small power/plug in equipment? No 160 Tommutal laundry? Yes Yes Data centre? No 560 Residential areas? Yes Yes Heatthcare? No 160 Kitchen and catering facilities? Yes No Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the BREEAM criteria? Yes 2 N/A Total indicative contribution to overall building score 1.41%	Pre-Assessment question/criteria			Significant		
Communal laundry? Data centre? No 160 H-interisive operation areas? Residential areas? Residential areas? Healthcare? Kitchen and catering facilities? Ves No Indicative Coredits available credits achieved Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the BREEAM criteria? Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the BREEAM criteria? Total indicative BREEAM criedits achieved 2 Total indicative contribution to overall building score 1.41%		ug in equipment?	Yes	contributor		
Residential areas? Healthcare? No Kitchen and catering facilities? Ves No Indicative compliance? Credits available credits achieved Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the BREEAM criteria? Total indicative BREEAM cridits achieved 2 Total indicative contribution to overall building score 1.41%		mmunal laundry? Data centre?	Yes No	Yes		
Indicative compliance? Credits available credits achieved Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the BREEAM criteria? Yes 2 N/A Total indicative BREEAM criterial 2		Residential areas? Healthcare?	Yes	Yes		
Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the BREEAM criteria? Total indicative BREEAM criteria? Total indicative contribution to overall building score 1.41%	Kitchen and d	atering facilities?	DOMESTIC OF	No	Indicative	
Total indicative contribution to overall building score 1.41%	Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the	BREEAM criteria?	compliance?		credits achieved	N/A
	Total indicative contribution to overall building score	1.41%				

The advantage of public Transport Accessibility RANSFORT See of STEAM registers and seed of the seed	BREEAM 2011 New Construction Pre-Assessment Estimator Indicative minimum standard(s) level	N/A		
The of BREAM confix provided in the confix pr	Comments/notes:			
RANSFORT Section Weighting 8.00% Indicative Section Score \$.33% Total authorize position from the property of the purpose and position of the				
No. of BREAM only for control and the second				
No. of BRITAN confor available				
RANSFORT Section Weighting 8.00% Indicative Section Score 5.331% Red section Section Weighting 8.00% Indicative Section Score 5.331% Red Section Sectio	Ene09 Drying Space			
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Total indicative DELEAN credits and become 1 NA DOWN Total indicative DELEAN credits and become 1 NA DELEAN credits and become 1 N	Dr. Accommon question (with old)	Respon		
Total indicate REAL Househing interface scheme. Indicative Real Househing interface scheme. Indicative real-immy standard () level Indicative real-immy standard () level Indicative real-immy standard () level Indicative Section Score Section Weighting. RANSPORT Section Weighting. Real of SELAM real-is available To a Medicative Section Score Section Weighting. Real of SELAM real-is available To a Medicative Section Score Section Weighting. Real of SELAM real-is available To a Medicative Section Score Section Weighting. Real of SELAM real-is available To a Medicative Section Score Medicative Section Score Section Weighting. Real of SELAM real-is available To a Medicative Section Score Medicative Section Score Medicative Section Score Section Weighting. Real of SELAM real-is available While is the secret of policy score of the originate score security. While is the store of policy score of section in the the building score. Real endowers of policy score of section in the section score in the section of policy score of section of policy transport Le small urban central substrate and section of policy transport Le small urban central substrate and section score in the section of policy score of section of policy transport Le small urban central substrate and section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score of section score in the section of policy score in the section of policy score in the section score in the section of policy score in the section score in the section sc				
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BREEAM 2011 New Construction Pre-Assessment Estimator No. of BREEAM Innovation credits available			000
No. of BREEAM Innovation credits available			
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What is the building type category (for the purpose of Tra03	issue assessment)?	Student residences and key worker accommodation	
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-Assessment question/criteria		Response Credits available credits achieved	
Will cycle storage	paces be provided?	Yes 1 1	
Total indicative BREFAM credits achieved			
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monty roce 2			
4 Maximum Car Parking Capacity	339		
No. of BREEAM credits available			and the least of
No. of BREEAM (credits available No. of BREEAM Innovation credits available	0	Available contribution to overall score Minimum standards applicable	1,78%
The second secon	-	www.mum standards applicable	No
Building type category (5 or the	an of Trade law and	Constant and the	
Buildings indicative Accessibility Index (sources	d from issue Tra01)	Student residences and key worker accommodation 8	
		CALIUMSTAN	
Assessment question/criteria		Indicative Response Credits available credits achieved	
Will the building meet BREEAM's maximum parking capacity criteria for this building type/A	Accessibility Index?	No 2 0	
Total indirative BREEAM credits achieved	0		
Total indicative contribution to overall building score	0.00%		
Total indicative BREEAM innovation credits achieved	N/A		
Indicative minimum standard(s) level	N/A		
opliance assessed on the basis of parking capacity for the whole development, accounting for all existences of the control of the partial of the control of			
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BREEAM 2011 New Construction Pre-Assessment Estimator Indicative minimum standard(s) level	Pre-Assessment re-	sult indicates the	minimum standards for Outstanding lev	/el
Comments/notes: A minimum of 1 credit is mandatory for an Excellent rating			3	
Wat02 Water Monitoring				
No. of BREEAM credits available No. of BREEAM innovation credits available	Commence of the contract of th		Available contribution to overall score Minimum standards applicable	0.67% Yes
Pre-Assessment question/criteria Will there be a water meter on the mains water supply Will metering/moniforing equipment be specified on the water supply to any relevant pl Will all specified water meters hav If the site/building has an existing BMS connection, will all pulsed meters be con	ant/building areas? re a pulsed output?	Response Yes Yes Yes Yes	Credits available credits achieved	
	0.57% N/A	sult indicates the	e minimum standards for Outstanding lea	vel
Comments/notes: 1 x water meter per building				
Wat03 Water Leak Detection and Prevention				1.33%
No. of BREEAM credits available No. of BREEAM innovation credits available	The second secon		Available contribution to everall score Minumum standards applicable Indicative	No.
Pre-Assessment question/criteria Will a mains water leak detection system be installed on the building's n Will flow control devices be justalled in each sa	nains water supply? nitary area/facility?	Response Yes Yes	Credits available credits achieved 1 1 1 1 1	
Total Indicative BREEAM credits achieved Total Indicative contribution to overall building score Total Indicative BREEAM innovation credits achieved Indicative minimum standard(s) leve	1.33% N/A			
Comments/notes:				
Wat04 Water Efficient Equipment	Account the property of		Available contribution to overall score	0.67%
No. of BREEAM credits available No. of BREEAM innovation credits available			Minimum standards applicable	No
Pre-Assessment question/criteria Will water efficient irrigation methods and/or vehicle wash systems (if rel	-	Response Yes	Credits available credits achieved	
Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) leve	0.67% N/A			
Comments/notes:				
MATERIALS Section Weighting	12.50%		Indicative Section Score	7.69%
Mat01 Life Cycle Impacts				11201620

REEAM 2011 New Construction Pre-Asse						
e-Assessment question/criteria	No. of BREEAM Innovation credits available	1		Minimurn s	landards applicable	No
Select th	to assess the number of BREEAM credits achi he number of BREEAM credits being targeted f	or the Mat01 issu	2		credits to be achiev	ed Maria and
each element, history continue of a gression of the body	Inglessecond and where meanly a his she tag	per or entire of the	n Sinderating or	Indik et No Snoon		Town Size
		Extreme Week				optani NA
		Rap Windows Upper Book shi				
	Plan	n Pinichen/coverny Internal wat				
	Total indicative BREEAM credits achieved idicative contribution to overall building score	1.92%				
Total in	ndicative BREEAM innovation credits achieved Indicative minimum standard(s) level					
nments/notes:						
02 Hard Landscaping and Boundary Protection	No. of BREEAM credits available	1		Available contribute		0.000
	No. of BREEAM innevation credits available	o o			ndards applicable	0.96% No
Assessment question/criteria Will >80% of all external hard landscaping	and boundary protection achieve a Green Gui	4.4	Response	Credits available	Indicative credits achieved	
	Total indicative BREEAM credits achieved	1	Yes		1	
Total ind	dicative contribution to overall building score dicative BREEAM innovation credits achieved	0.96% N/A				
ments/notes:	Indicative minimum standard(s) level	N/A				
3 Responsible Sourcing						
	No. of BREEAM credits available No. of BREEAM innovation credits available	3	A	vailable contributio	n to overall score	2.88%
ssessment guestion/criteria					manus dipludue	Yes
Select the	o assess the number of BREEAM credits achiev number of BREEAM credits being targeted for	the Mat03 issue	Define a target no		redits nnovation credits	0
Will all timber used on the project be sourced to despend below clears confirm it to present or number.	I in accordance with the UK Govt's Timber Proc	curement Policy?	Yes		1200	
		OF AN ALKE THE TREATMENT OF		CONTRACTOR DE MONTO		
			finnen) stesen.	Plement suppossibly	Responsible sourcing test	
ng elektronis		этчесции Еципе	Startien) present /kayersed			
	Wigner floors throughing a	Structurus France GAMON Spoc eparating Scorol Epar		Enthousing	Statistic two	
	Wigner floors (Including a	Structural Etamo GAMMA Book epistating Recess (Cont Paternal seale (Na Astronotting		Enthousing	Statistic two	
	Viger floors (Including a Foundary	Structural Flame Gronnel Roce episiating floors Rocal Floorist scala Internal scala		Enthousing	Statistic two	
itp. elefotresits	Super floors throughing a foundant foundant for the foundant for the foundant for the contribution to overall building score	Structural France Ground floor eparting Woods Room Factorial such invertal such feel washington acting the factorial such acting the flames acting 2 1.92%		Enthousing	Statistic two	
ing eleforesits	Wigner floors throughing a foundary floor of the foundary for the foundary for the foundary floor of the floor	Structural France Grother Rock Posts	/ koutsarů	(Wagerman) woulded	Sourcing Seat leavel	

BREEAM 2011 New Construction Pre-Assessment Estimator			W-11/200
Mat04 insulation			
No. of BREEAM credits available No. of BREEAM innovation credits available	0	Available contribution to overall score Minimum standards applicable	1.92% No
Pre-Assessment question/criteria Is the building targeting an insulating in Will the building's insulating materials be rea		Response Credits available credits achieved Yes 1 1 Yes 1 1	
Fotal indicative BREEAM credits achieved	2		
Total indicative contribution to overall building score Total indicative BREEAM minovation credits achieved Indicative minimum standard(s) jevel	1.92% N/A N/A		
Comments/notes:			
Mat05 Designing for Robustness			
No. of BREEAM credits available No. of BREEAM innovation credits available	0	Available contribution to overall score Minimum standards applicable	0.96% N/A
Pre-Assessment question/criteria Will suitable durability/protection measures be specified and installed to vulnerable area	as of the building?	Response Credits available credits achieved Yes 1 1	
Total indicative BREEAM credits achieved	1	163	
Total indicative contribution to overall building score Total Indicative BREFAM innovation credits achieved Indicative infirmin standard(s) level	0.96% N/A N/A		
Comments/notes:	***************************************		
WASTE Section Weighting	7.50%	Indicative Section Score	5.00%
Wst01 Construction Waste Management			2,0-0.2
No. of BREEAM credits available No. of BREEAM innovation credits available	4	Available contribution to overall score Minimum standards applicable	5.00% Yes
Pre-Assessment question/criteria			
Mow do you wish to assess the number of BREEAM credits achiev Select the number of BREEAM credits being largeted for White assessment with the contract of the	r the Wst01 issue	efine a target number of BREEAM credits to be achieved 3 BREEAM Innovation credits	
Abit a compliant pre-fernicitien and the order face (if the hypothesis of the content of the con	nish caber N/A) ne praste data ke?	schime set/Addig	
Non-betardaut and betar to the sealth their Brodular food demost by Kutte 197	ted from landfill?		
Total indicative BREEAM credits achieved. Total indicative contribution to overall building score	3.75%		
	0 Pre-Assessment resu	Ilt indicates the minimum standards for Outstanding level	
Comments/notes:			
Wst02 Recycled Aggregates			
No. of BREEAM credits available. No. of BREEAM (novation credits available.	1	Available contribution to overall score Minimum standards applicable	1.25% No

REEAM 2011 New Construction Pre-Assessment Estimator			
	Sometimes and	folal	
Please conflirit the larger tracks is high-greate appropriating will be recycled sector			
	Structural frague		
f ison plats including a Distributive policy bound have. Nincer dis	d mortana e-surse-		
	ete road où lione Hipe bedding		
Grando	iding from datifisms of fill and carboning raised landscaping		
Total indicative BREEAM credits achieved	0		
Total indicative contribution to overall building score	0.00%		
Total Indicative BREEAM Innovation credits achieved Indicative minimum standard(s) level	0 N/A		
mments/notes:			
t03 Operational Waste	SUL		
No. of BREEAM credits available	1	Available contribution to overall score	1.25%
No. of BREEAM innovation credits available	0	Minimum standards applicable	Yes
-Assessment question/criteria		Response Credits available credits achieved	
Will appropriate facilities for the storage of operational recyclable waste volun If relevant, will a static waste compactor(s) or baler(s) be sp	ecified/installed?	Yes 1 1 1 N/A	
If relevant, will a vessel for composting suitable organic waste be sp Will internal and, if applicable, communal storage & home compost facilit		N/A Yes	
Total Indicative BREEAM credits achieved	1		
Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	1.25% N/A		
The state of the first that the state of the	AND DESCRIPTION OF THE PARTY OF	Indicates the minimum standards for Outstanding leve	ele
The state of the first that the state of the	AND DESCRIPTION OF THE PARTY OF	indicates the minimum standards for Outstanding leve	
Indicative minimum standard(s) level	AND DESCRIPTION OF THE PARTY OF	Indicates the minimum standards for Outstanding leve	
Indicative minimum standard(s) level	AND DESCRIPTION OF THE PARTY OF	Indicates the minimum standards for Outstanding leve Assessment issue	
Indicative minimum standard(s) level inments/notes: t04 Speculative Floor and Ceiling Finishes No. of BREEAM credits available	Pre-Assessment result	Assessment issue	Not Applicat
Indicative minimum standard(s) level in ments/notes: 104 Speculative Floor and Ceiling Finishes	Pre-Assessment result	Assessment issue	Not Applica
Indicative minimum standard(s) level in ments/notes: t04 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM innovation credits available	Pre-Assessment result	Assessment issue	Not Applicat
Indicative minimum standard(s) level in imments/notes: t04 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM innovation credits available	Pre-Assessment result	Assessment issue Available contribution to overall score Minimum standards applicable Indicative	Not Applicat
Indicative minimum standard(s) level in imments/notes: t04 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM innovation credits available	Pre-Assessment result	Assessment issue: Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applicat
Indicative minimum standard(s) level in ments/notes: 104 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM innovation credits available Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Total indicative BREEAM innovation credits achieved	N/A N/A N/A N/A N/A N/A	Assessment issue: Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applicat
Indicative minimum standard(s) level inments/notes: 104 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM innovation credits available Assessment question/criteria Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	Pre-Assessment result N/A N/A N/A	Assessment issue: Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applicat
Indicative minimum standard(s) level inments/notes: 04 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM innovation credits available Assessment question/criteria Total indicative BREEAM credits achieved Fotal indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A N/A N/A N/A N/A	Assessment issue: Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applicat
Indicative minimum standard(s) level inments/notes: 104 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM innovation credits available Assessment question/criteria Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A N/A N/A N/A N/A	Assessment issue: Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applicat
Indicative minimum standard(s) level inments/notes: 104 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM innovation credits available Assessment question/criteria Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A N/A N/A N/A N/A	Assessment issue: Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applicat
Indicative minimum standard(s) level inments/notes: 104 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM innovation credits available Assessment question/criteria Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A N/A N/A N/A N/A	Assessment issue: Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applicat
Indicative minimum standard(s) level	N/A N/A N/A N/A N/A N/A N/A	Assessment Issue Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applical N/A N/A
Indicative minimum standard(s) level	N/A N/A N/A N/A N/A N/A	Assessment issue: Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applicat
Indicative minimum standard(s) level mments/notes: No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Indicative minimum standard(s) level Indicative minimum standard(s) level ND USE & ECOLOGY Section Weighting	N/A N/A N/A N/A N/A N/A N/A	Assessment Issue Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved 144 Indicative Section Score	Not Applicat N/A N/A 6.00%
Indicative minimum standard(s) level	N/A N/A N/A N/A N/A N/A N/A	Assessment Issue Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved	Not Applicat N/A N/A
Indicative minimum standard(s) level mments/notes: 10.4 Speculative Floor and Ceiling Finishes No. of BREEAM credits available No. of BREEAM impovation credits available Assessment question/criteria Total indicative BREEAM innovation credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Indicative minimum standard(s) level Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available	N/A	Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved Indicative Section Score Available contribution to swerall score Minimum standards applicable Indicative	N/A N/A N/A 6.00%
Indicative minimum standard(s) level mments/notes: No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative minimum standard(s) level Indicative minimum standard(s) level mments/notes: No. of BREEAM credits available No. of BREEAM credits available	N/A	Available contribution to overall score Minimum standards applicable Indicative Response Credits available credits achieved [14] [14] [15] Indicative Section Score Available contribution to overall score Minimum standards applicable	N/A N/A N/A 6.00%

Total indicative BREFAM introvation credits achieved N/A	
Indicative minimum statidard(s) level N/A	
Comments/notes:	
LEO2 Ecological Value of Site and Protection of Ecological Features	
No. of BREEAM credits available 1 Available contribution to overall score No. of BREEAM innovation credits available 0 Minimum standards applicable	1.00% No
Indicative	
Pre-Assessment question/criteria Response Credits available credits achieved Can the land within the construction zone be defined as fand of low ecological value? No 1 0	
Will all testures of ecological value surrounding the construction zone/site boundary be protected? Yes	
Total Indicative BREEAM credits achieved 0 Total indicative contribution to overall building score 0.00%	
Total indicative BREEAM innovation credits achieved N/A indicative minimum standard(s) level N/A	
Comments/notes:	
LE03 Mitigating Ecological Impact	
No, of BREEAM credits available Available contribution to overall score	2.00%
No. of BREEAM innovation credits available 0 Minimum standards applicable	Yes
Pre-Assessment question/criteria What is the likely change in ecological value (plant species richness) as a result of the sites development? No negative change or improvement in plant species richness)	hness
Total Indicative BREEAM credits achieved 2	
Total Indicative contribution to overall building score 2,00% Total indicative BREEAM innovation credits achieved N/A	
Indicative minimum standard(s) level Pre-Assessment result indicates the minimum standards for Outstanding le	vel
Comments/notes:	
LE04 Enhancing Site Ecology	William - W
No. of BREEAM credits available 3 Available contribution to overall score No. of BREEAM innovation credits available 0 Minimum standards applicable	3.00% No
Pre-Assessment question/criteria Response Credits available credits achieved	
Will a suitably qualified ecologist be appointed to report on enhancing and protecting site ecology? Will the suitably qualified ecologists general recommendations be implemented? Yes	
What is the targeted/intended improvement in ecological value as a result of enhancement actions? Small improvement in plant species richness	
Total indicative BREEAM credits achieved 2 Total indicative contribution to overall building score 2,00%	
Total indicative BREEAM innovation credits achieved N/A indicative minimum standard(s) level N/A	
Comments/notes:	
LEOS Long Term Impact on Biodiversity	
	2.00%

BREEAM 2011 New Construction Pre-Assessment Estimator Credits available credits achieved Yes Yes Yes Yes Yes Total indicative BREEAM credits achieved . 2 Total indicative contribution to overall building score 2.00% Total indicative BREEAM innovation credits achieved N/A N/A Comments/notes: POLLUTION Section Weighting 10.00% Indicative Section Score 8.46% Pol01 Impact of Refrigerants No. of BREEAM credits available 3 Available contribution to overall score 2.31% No. of BREEAM innovation credits available 0 0 Minimum standards applicable No Pre-Assessment question/criteria Credits available credits achieved Yes 2 2 Yes kgCO2eq/kW coolth capacity Total indicative contribution to overall building score 1.54% Total indicative BREEAM innovation credits achieved N/A Indicative minimum standard(s) level N/A Comments/notes Pol02 NO, Emissions No. of BREEAM credits available Available Contribution to overall score 2.33% No. of BREEAM innovation credits available 0 Pre-Assessment question/criteria mg/kWh 40.00 Total indicative BREEAM credits achieved 3 Total indicative contribution to overall building score 2.31% Total indicative BREEAM innovation credits achieved N/A N/A Comments/notes: Pol03 Surface Water Run off No. of BREEAM credits available 5 Available contribution to overall score 3.85% No. of BREEAM innovation credits available 0 Minimum standards applicable No Pre-Assessment question/criteria Credits available credits achieved Low Yes 2 2 Yes

Yes

BREEAM 2011 New Construction Pre-Assessment Estimator			
Total indicative BREEAM credits achieve: Total indicative contribution to overall building acor			
Total indicative BREEAM innovation credits achieves Indicative minimum standard(s) leve	N/A		
Comments/notes:	a NyA		
Pol04 Reduction of Night Time Light Pollution			
No. of BREEAM credits available No. of BREEAM innovation credits available		Available contribution to overall score Minimum standards applicable	0.77% No
Pre-Assessment question/criteria		Indicative Response Credits available credits achieved	
Will the external lighting be designed to rec	duce light pollution?	Yes 1 1	
Total indicative BREEAM credits at hievid Total indicative contribution to overall building score			
Total indicative RREEAM innovation credits achieved indicative minimum standard(s) leve	N/A		
Comments/notes:	13417		
Pol05 Noise Attenuation			
No of BREEAM credits available		Available contribution to overall score	0,77%
No. of BREEAM innovation credits available	0	Minimum standards applicable	No
Pre-Assessment question/criteria		Response Credits available credits achieved	
Will there be, or is there noise-sensitive areas/buildings within 800m radius of Will a noise impact assessment be completed and, if applicable, noise attenuation of		Yes 1 1	
Total indicative BREEAM credits achieved Total indicative contribution to overall building score			
Total indicative BREEAM innovation credits achieved	N/A		
Indicative minimum standard(s) level	N/A		
Comments/notes:			
INNOVATION Section Weighting	10.00%	Indication Females Com-	2.00%
	10.00%	Indicative Section Score	2.00%
Innot Innovation No. of BREEAM innovation credits available	10	Available contribution to overall score	10.00%
HEROLOGICE HAND STREET AND STREET		Minimum standards applicable	No
Pre-Assessment question/criteria		Exemplary level Indicative achieved Credits available credits achieved	
	inable Procurement estruction Practices	Yes 1 1 Yes 1 1	
He EneO1 Reductio	ra01 Visual Consfort on of CO2 Emissions	No 1 0 0 No 5 0	
	ficient Cold Storage:	No	
Mat0)	Vater Consumption I Life Cycle Impacts	No 1 0 No 1 No 1 No 1 No 1 No 1 No 1 No	
Mut03 Responsible Se Wat01 Construction W Mat02 B		No 1 0 No 1 0	
watuz k Totai Indicative BREEAM credits achieved		10 1	
Total indicative contribution to overall building score	2.00%		
Indicative minimum standard(s) level	N/A		

Comments/notes



Total State of the last of the	