CSH and BREEAM Report

CSH AND BREEAM REPORT-THE HOPE AND ANCHOR, CROWNDALE ROAD

Client:

MADIGAN BROWNE

Author:

Name Andrew Webb Reference: MB-Hope and Anchor-CSH&BREEAM/R/1.0/AW

Signature Status: ISSUE

Position Environmental Consultant Date: 01/05/2014

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1. Assessment Information

Nature of Assessment: CSH and BREEAM Report-The Hope and Anchor, Crowndale Road

Project Name: The Hope and Anchor

Project Address: The Hope and Anchor, Crowndale Road, NW1 1TP

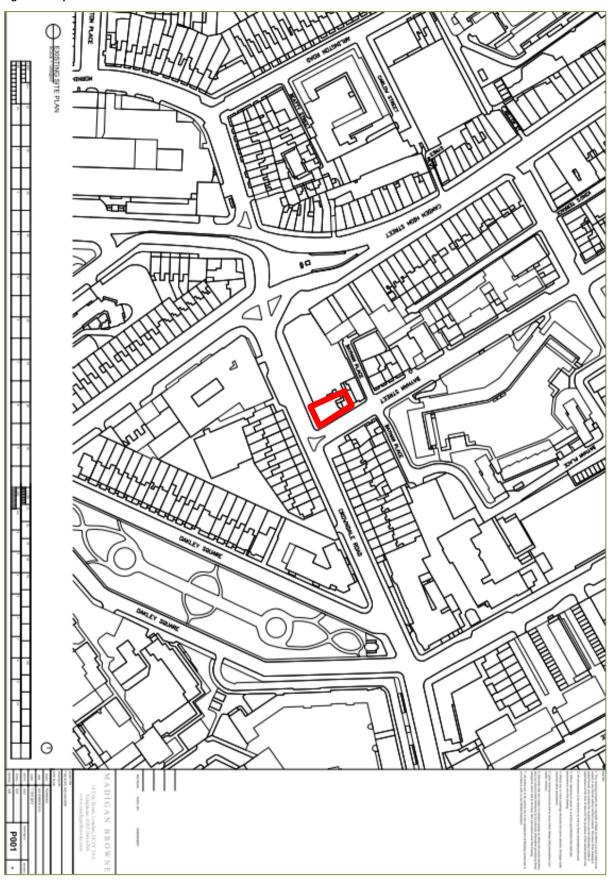
Client: Madigan Browne

Client's Address: 63 Grosvenor Street, London, W1K 3JG

Details of the Development: Redevelopment of the site to provide a commercial unit and 8 residential

units comprising 5x refurbished flats and 3x new build flats

Figure 1 Proposed Site Location



2. Introduction

This report has been prepared by Abbey Consultants on behalf of Madigan Browne in support of the planning application on The Hope and Anchor, Crowndale Road, NW1 1TP.

The Code for Sustainable Homes and BREEAM New Construction 2011 are environmental assessment methodologies for rating and certifying the performance of new homes and commercial units respectively. Madigan Browne are committed to seeking a Code level 4 for all new build dwellings and BREEAM Excellent for the commercial unit in the proposed development, as well as achieving a 40% reduction in CO_2 emissions over Building Regulations 2010.

Pre-Assessments have been completed for the above mentioned CSH and BREEAM schemes to demonstrate how the scheme will be able to meet the requirements for CSH level 4 and BREEAM Excellent as required by Camden Borough Council Planning Policies.

The proposed development of the site is for the refurbishment of the existing Hope and Anchor Public House and associated floors and the construction of 3 new build residential flats, 5 refurbished flats and commercial unit.

The existing development consists of the existing Hope and Anchor public house and associated floors, located off Crowndale Road in central London; just 5 minutes walk from Euston train station, providing easy access to a wide variety of locations throughout London. The proposed development will provide 8 dwellings in a highly accessible and desirable location in addition to the commercial unit, making more optimum use of the site.

Figure 2: Google Maps View of the Existing Site



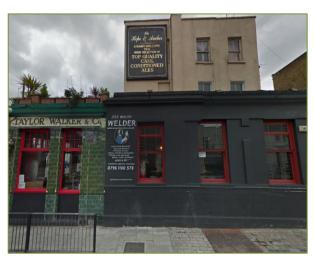
Figure 3: Existing Pub Front



Figure 5: View of the Pub Entrance



Figure 4: View of the Pub Site off Bayham Street



3. PLANNING POLICY

3.1 NATIONAL POLICY

The UK has a legally binding target through the Kyoto protocol to reduce emissions from greenhouse gases. The National Planning Policy Framework sets out the Government's planning policies for England and how these are expected to be applied. It sets out the Government's requirements for the planning system only to the extent that it is relevant, proportionate and necessary to do so. It provides a framework within which local people and their accountable councils can produce their own distinctive local and neighbourhood plans, which reflect the needs and priorities of their communities.

The following items from the National Planning Policy Framework (NPPF) set out the Government's position in response to reducing carbon emissions:

NPPF - Chapter 10: Meeting the challenge of climate change, flooding and coastal change

95: To support the move to a low carbon future, local planning authorities should:

- Plan for new development in locations and ways which reduce greenhouse gas emissions;
- Actively support energy efficiency improvements to existing buildings; and
- When setting any local requirement for a building's sustainability, do so in a way consistent with the Government's zero carbon buildings policy and adopt nationally described standards.

96: In determining planning applications, local planning authorities should expect new development to:

- Comply with adopted Local Plan policies on local requirements for decentralised energy supply unless it
 can be demonstrated by the applicant, having regard to the type of development involved and its design,
 that this is not feasible or viable; and
- Take account of landform, layout, building orientation, massing and landscaping to minimise energy consumption.

97: To help increase the use and supply of renewable and low carbon energy, local planning authorities should recognise the responsibility on all communities to contribute to energy generation from renewable or low carbon sources. They should:

- have a positive strategy to promote energy from renewable and low carbon sources;
- design their policies to maximise renewable and low carbon energy development while ensuring that adverse impacts are addressed satisfactorily, including cumulative landscape and visual impacts;
- consider identifying suitable areas for renewable and low carbon energy sources, and supporting infrastructure, where this would help secure the development of such sources
- support community-led initiatives for renewable and low carbon energy, including developments outside such areas being taken forward through neighbourhood planning; and
- identify opportunities where development can draw its energy supply from decentralised, renewable or low carbon energy supply systems and for co-locating potential heat customers and suppliers.

98: When determining planning applications, local planning authorities should:

- Not require applicants for energy development to demonstrate the overall need for renewable or low carbon energy and also recognise that even small-scale projects provide a valuable contribution to cutting greenhouse gas emissions; and
- Approve the application if its impacts are (or can be made) acceptable. Once suitable areas for renewable
 and low carbon energy have been identified in plans, local planning authorities should also expect
 subsequent applications for commercial scale projects outside these areas to demonstrate that the
 proposed location meets the criteria used in identifying suitable areas.

3.2 REGIONAL POLICY

London Plan - Chapter 5: London's response to climate change

Policy 5.1 introduces the target to achieve an overall reduction in carbon dioxide for London of 60% below 1990 levels by 2025, which leads to Policy 5.2 - Minimising Carbon Dioxide Emissions, expanding on this target for residential developments with the Be lean, Be clean, Be green Energy Hierarchy and the current target of $40\% \, \text{CO}_2$ improvement over 2010 Building Regulations.

Policy 5.2 - Minimising Carbon Dioxide Emissions

Planning Decisions

- A. Development proposals should make the fullest contribution to minimising carbon dioxide emissions in accordance with the following energy hierarchy:
 - 1. Be lean: use less energy
 - 2. Be clean: supply energy efficiently
 - 3. Be green: use renewable energy
- B. The Mayor will work with boroughs and developers to ensure that major developments meet the following targets for carbon dioxide emissions reduction in buildings. These targets are expressed as minimum improvements over the Target Emission Rate (TER) outlined in the national Building Regulations leading to zero carbon residential buildings from 2016.

Residential buildings:

Year	Improvement on 2010 Building Regulations
2010-2013	25 per cent (Code for Sustainable Homes level 4)
2013-2016	40 per cent
2016-2031	Zero carbon

3.3 LOCAL POLICY

London Borough of Camden Local Development Framework

DP22 – Promoting Sustainable Design and Construction

The Council will require development to incorporate sustainable design and construction measures. Schemes must:

- a) Demonstrate how sustainable development principles, including the relevant measures set out in paragraph
- 22.5 below, have been incorporated into the design and proposed implementation; and
- b) Incorporate green or brown roofs and green walls wherever suitable.

The Council will promote and measure sustainable design and construction by:

- c) Expecting new build housing to meet Code for Sustainable Homes Level 3 by 2010 and Code Level 4 by 2013 and encouraging Code Level 6 (zero carbon) by 2016.;
- d) Expecting developments (except new build) of 500 sq m of residential floor space or above or 5 or more dwellings to achieve "very good" in EcoHomes assessments prior to 2013 and encouraging "excellent" from 2013;
- e) Expecting non-domestic developments of 500sqm of floor space or above to achieve "very good" in BREEAM assessments and "excellent" from 2016 and encouraging zero carbon from 2019. The Council will require development to be resilient to climate change by ensuring schemes include appropriate climate change adaptation measures, such as:
- f) Summer shading and planting;

) Limiting run-off;		
Reducing water consumption;		
Reducing air pollution; and		
Not locating vulnerable uses in basement	s in flood-prone areas.	





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Code For Sustainable Homes Strategy Report

Development Name: Hope and Anchor

Site Address The Hope and Anchor, Crowndale Road, NW1 1TP

No of Units 3

Plot No's 5,7,8

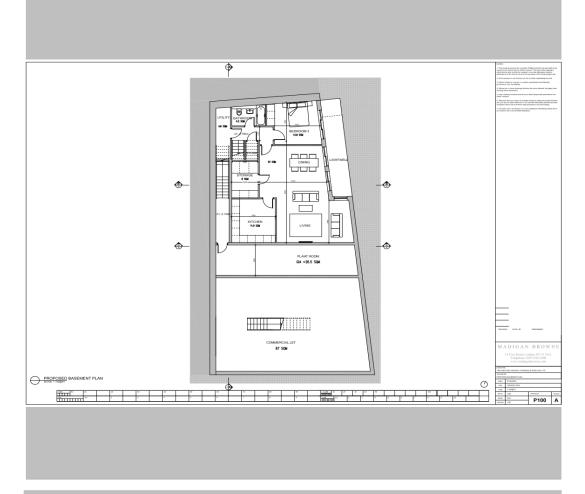
Code Requirement Code Level 4 Version: Nov 2010 Matt Fitzpatrick - BREEAM- ASSESSOR-192

Report Issue Date

Developer Madigan Browne

Address
Madigan Browne, 63 Grosvenor Street, London, W1k 3JG

Site Description



Notes

30/04/2014 Pre-Assessment Strategy for Planning

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Site Strategy - Hope and Anchor

	Flats
Targeted Score	68.56
Total Required	68.00

Initial strategy following review of planning concept drawings.

Credit Issue	Description of Credit Issue	Maximum Score	Flats	Weighted Value of credit	Strategy
Ene 1	Dwelling Emission Rate	10	4.6	1 1 1 /	No SAP's have been completed at present, however the developer has targetted a minimum improvement of 40% over 2010 TER, in line with the requirements of the London Plan and LB Barnet planning policies.
Ene 2	Fabric Energy Efficiency	9	5	1 11/	Abbey consultants have assumed based on past experience that the Fabric Energy Efficiency of the building will be below 43 kWh/m2/year. This would achieve 5 credits.
Ene 3	Energy Display Devices	2	2	1.17	The Developer has confirmed that an Electricity <u>and</u> Primary heating fuel consumption data must be displayed to occupants by a correctly specified energy display device. This is a system comprising a self charging sensor(s) fixed to the incoming mains supply/supplies, to measure and transmit energy consumption data to a visual display unit. As a minimum the visual display unit must be capable of displaying the following information: Local time Current mains energy consumption (kilowatts and kilowatt hours) Current emissions (g/kg CO2) Current tariff Current Cost (in pounds and pence) Display accurate account balance information (amount in credit or debit) Visual presentation of data (non-numeric) to allow consumers to identify high and low levels of usage. Historical consumption data so that consumers can compare their current and previous usage. This should include cumulative consumption data in any of the following forms day/week/month/billing period.
Ene 4	Drying Space	1	1	1.17	The developer has agreed to provide an over bath tidy dry, fixed over each bath within the apartments, with a drying line in excess of: 4m for the 2 bedroom apartments 6m for the 3 bedroom apartments Bathrooms will have controlled intermittent extract ventilation and will achieve a minimum extract rate of 30l/s and be controlled according to the requirements for intermittent extract ventilation defined in AD F.

Credit Issue	Description of Credit Issue	Maximum Score	Flats	Weighted Value of credit	Strategy
Ene 5	Energy Labelled White Goods	2	1	1.17	The Developer has confirmed that a white goods package is not to be supplied as standard; however a leaflet describing the EU labelling scheme is also to be provided to all residents within the Home User Guide, allowing 1 credit to be achieved. If any white goods are to be provided they will comply with the following minimum energy ratings: Fridge/freezers A+ Rated Washing Machines A Rated with a maximum water consumption of 8.17 litres per Kg (Dry Load) Dishwashers A Rated with a maximum water consumption of 1.25 litres per place setting Washer Dryer/tumble dryer B Rated with a maximum water consumption of 8.17 litres per Kg (Dry Load)
Ene 6	External Lighting	2	2	1.17	All external space lighting including corridors and common areas to flats are to be Dedicated Low Energy fittings and controlled by PIR or timer switches. Any Security lighting will have a maximum wattage of 150W, be controlled by PIR and daylight cut-off sensors.
Ene 7	Low or Zero Carbon Technologies	2	1	1.17	No SAP's have been completed at present, however the developer has targetted a minimum improvement of 40% over 2010 TER, in line with the requirements of the London Plan and LB Barnet planning policies, which is likely to achieve a credit in this section.
Ene 8	Cycle Storage	2	2	1.17	The Developer has confirmed that secure cycle storage will be provided within a communal store containing a proprietary racking system at the rate of 2No cycle spaces for each two bedroom apartment and 1No cycle spaces for each 1 bedroom apartment, meeting the 4 spaces required. The communal stores will be secure and will comply with the secured by design requirements.
Ene 9	Home Office	1	0	1.17	Credits not sought.
Wat 1	Internal Water Use	5	3	1.50	The developer has agreed that the following specification (or similar) will be adopted to achieve a reduction in water consumption to achieve a usage of no greater than 105 litres per person per day allowing 3 credits to be awarded. Cisterns: 6/4 Dual flush Bath: Maximum Volume to overflow 170 Litres Basin Taps: 5 Litres per minute Kitchen Taps: 12 Litres per minute Shower: 6 Litres per minute Washing Machine: Max consumption 8 litres per kg (dry load) Dishwasher: Max consumption 1.2 litres per place setting The figures shown above are for a unit where all fittings are the same.
Wat 2	External Water Use	1	1	1.50	As no communal garden spaces are being provided this credit is achieved by default.

Credit Issue	Description of Credit Issue	Maximum Score	Flats	Weighted Value of credit	Strategy
Mat 1	Environmental Impact of Materials	15	9	0.30	The material specification will be assessed under the Green Guide as produced by the BRE. Abbey Consultants estimate that 9 credits will be achieved for the flats.
Mat 2	Responsible Sourcing - Basic	6	4	0.30	The Developer will ensure that at least 80% of material within the basic building elements will be responsibly sourced through suppliers who capable of providing BES6001, ISO140001, EMAS or COC certification. The following areas are considered: a) Frame b) Ground floor c) Upper floors (including separating floors) d) Roof e) External walls f) Internal walls (including separating walls) g) Foundation/substructure (excluding sub-base materials) h) Staircase Additionally, 100% of any timber in these elements must be legally sourced. The following areas are to be considered.
Mat 3	Responsible Sourcing - Finishing	3	2	0.30	The Developer has agreed that all material, primarily timber, will be responsibly sourced. The percentages of timber within the scheme are sufficient for 2 credit to be assumed awarded. The following areas are considered: a) Stair b) Window c) External & internal door d) Skirting e) Panelling f) Furniture g) Fascia's h) Any other significant use
Sur 1	Reduction Surface Water Run-off	2	0		As the impermeable area of the site is not going to increase, the mandatory element of this issue will be complied with. The geology of the underlying strata means that disposal of the surface water run off will not be possible via infiltration techniques and as a result the tradeable credits are unlikely to be achieved.
Sur 2	Flood Risk	2	2	0.55	Initial investigations by Abbey Consultants indicate that the site falls into Flood Zone, as confirmed by an EA flood risk map; in addition the Developer has confirmed that a flood risk assessment will be produced for confirmation.
Was 1	Household Waste Storage and Recycling	4	4		The developer has agreed that full recycling both internally (30 litres) and externally (suitable base and covered) is to be provided for all plots. As Camden Borough Council provide a post collection sorting service the internal bin will comprise of a single 30L bin. Access to external storage facilities is to satisfy all criteria listed in Checklist IDP.

Credit Issue	Description of Credit Issue	Maximum Score	Flats	Weighted Value of credit	Strategy
Was 2	Construction Site Waste Management	3	3	0.80	The developer has agreed, the site will have the benefit of a Site Waste Management Plan that contains: a) target benchmarks for resource efficiency b) procedures for minimizing non-hazardous waste. Specifying waste minimisation actions relating to at least 3 waste groups and support them by appropriate monitoring of waste c) procedures for minimizing hazardous waste d) monitoring, measuring and reporting of hazardous and non-hazardous waste site waste production according o defined waste groups. Plus for 3 credits The SWMP will include procedures for diverting waste from landfill though re-use on site, re-use on other sites, salvage, return to supplier (take back scheme), recovery and recycling through an approved waste contractor, compost and At least 85% by weight or by volume of non- hazardous waste will have been diverted from landfill.
Was 3	Composting	1	1	0.80	As Camden Borough Council offer a food waste collection scheme this credit is achieved for the flats by default.
Pol 1	Global Warming Potential	1	1	0.70	All Insulants used within the roofs, walls, floors, cylinder, pipework, cold water storage tanks, external doors and loft access traps will have a GWP of less than 5:
Pol 2	NOx emissions	3	3	0.70	All heating and hot water will be provided by gas boilers. All boilers specified will have NOx emissions of less than 40mg/kWh.
Hea 1	Daylighting	3	0	1.17	Credits not sought.
Hea 2	Sound Insulation	4	4	1.17	The developer has agreed to conduct a series of pre-completion sound tests for both airborne and impact sound and has made a commitment to achieve an improvement of 8db over the requirements of Part E.
Неа 3	Private Space	1	0	1.17	As no communal garden spaces are being provided this credit cannot be achieved.
Hea 4	Lifetime Homes	4	4	1.17	The developer has confirmed that all dwellings are to meet Lifetime Homes criteria.

Credit Issue	Description of Credit Issue	Maximum Score	Flats	Weighted Value of credit	Strategy
Man 1	Home User Guide	3	3		The developer has agreed to provide each homeowner with a Home User Guide that complies with Checklist Man1 Parts 1 & 2 as issued by the BRE and therefore 3 credits will be achieved.
Man 2	Considerate Constructors Scheme	2	2	1.11	The developer will ensure that the site will be registered under the Considerate Constructors Scheme and commit to achieving a score of in excess of 35 with no section scoring less than 7 enabling 2 credits to be awarded.
Man 3	Construction Site Impacts	2	2		The following is to be adopted on site: Monitor, report and set targets for CO2 production or energy use arising from site activities Monitor, report and set targets for water consumption from site activities Adopt best practice policies in respect of air (dust) pollution arising from site activities Adopt best practice policies in respect of water (ground and surface) pollution occurring on the site
Man 4	Security	2	2	1.11	An ALO will be appointed at an early stage in the design process and their advice will be followed to ensure that the properties comply with Section 2 of Secured By Design allowing 2 credits to be assumed awarded.
Eco 1	Ecological Value	1	1		The developer has confirmed that an Ecology Report will be produced for Code for Sustainable Homes purposes from a suitably qualified ecologist. As the site is currently all buildings and hardstanding, it has been assumed that the site will be classified as being of low ecological value.
Eco 2	Ecological Enhancements	1	1	1.33	The ecologist will make a number of recommendations within the ecology report. The developer has confirmed that all of the main recommendations and at least 30% of the additional recommendations made by the ecologist will be incorporated.
Eco 3	Ecological Protection	1	1	1.33	Once the Ecological report is developed, the developer will ensure that any protection measures required by the Ecologist will be carried out.
Eco 4	Change in Ecological Value	4	2	1.33	The ecologist will complete calculations to determine the change in species count. It can be assumed that the change will be at least neutral and therefore 2 credits would be awarded.
Eco 5	Building Footprint	2	0	1.33	Calculations by Abbey Consultants based on the planning drawings confirm that the building footprint ratio will is approximately 2.81:1 and therefore no credits will be achieved.
		Curren	t Score	68.56	

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 potential performance and is based on a simplified pre-formal BREEAM assessment and unverified commitments given at an early stage in the design process. Building name Hope and Anchor Commercial Indicative building score (%) 70.08% Indicative BREEAM rating Pre-Assessment result indicates potential for BREEAM Excellent rating Indicative minimum standards level achieved Pre-Assessment result indicates the minimum standards for Excellent level MANAGEMENT Section Weighting 12.00% Indicative Section Score Man01 Sustainable Procurement No. of BREEAM credits available Available contribution to overall score 4.36% No. of BREEAM innovation credits available Minimum standards applicable Shell & Core Pre-Assessment question/criteria Response Credits available achieved option? Nill roles, responsibilities and a training schedule be defined in accordance with BREEAM? N/A No Will a BREEAM AP be appointed at RIBA stage A/B and performance targets contractually agreed? Will a BREEAM AP be appointed to monitor and report progress during RIBA stage B-E? Willa BREEAM AP be appointed to monitor and report progress during RIBA stage F-L? Yes N/A N/A Yes Yes N/A Will a thermographic survey be conducted and any defects uncovered remedied? Will compliant commissioning of building services be carried out? No N/A No N/A Will compliant seasonal commissioning of building services be carried out? No 0 N/A Will water/energy consumption data be recorded and aftercare support provided for 12 months' Will water/energy consumption be recorded/reported for 3 years post construction No 0 N/A No N/A Total indicative BREEAM credits achieved Total indicative contribution to overall building score 1.64% Total indicative BREEAM innovation credits achieved 0 Indicative minimum standard(s) level Pre-Assessment result indicates the minimum standards for Outstanding level Comments/notes Man02 Responsible Construction Practices No. of BREEAM credits available Available contribution to overall score 1.09% No. of BREEAM innovation credits available 1 Minimum standards applicable Yes Shell & Core option? Which considerate construction scheme will be used or required to be used by the principal contractor? Considerate Constructors Scheme N/A For the required scheme, what will be the target performance level set for the site/contractor? A CCS score between 32 and 35.5 Total indicative BREEAM credits achieved Total indicative contribution to overall building score 1.09% Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Pre-Assessment result indicates the minimum standards for Outstanding level Comments/notes: Man03 Construction Site Impacts No. of BREEAM credits available Available contribution to overall score 2.73% No. of BREEAM innovation credits available Shell & Core Indicative credits Pre-Assessment question/criteria Credits available achieved Will site energy consumption be metered/monitored? Yes N/A N/A Will the transport of construction materials and waste to/from site be measured/monitored? Will timber be sourced in accordance with the Government's Timber Procurement Policy? Yes N/A Will/does the principal contractor operate a compliant Environmental Management System Yes cipal contractor adopt best practice pollution prevention policies & procedures? Yes Total indicative BREEAM credits achieved Total indicative contribution to overall building score 2.73% Total indicative BREEAM innovation credits achieved N/A Indicative minimum standard(s) level N/A Comments/notes:

BREEAM 2011 New Construction Pre-Assessment Estimator Man04 Stakeholder Participation No. of BREEAM credits available Available contribution to overall score 4 2.18% No. of BREEAM innovation credits available 0 Yes Indicative credits Shell & Core Credits available Pre-Assessment question/criteria Response achieved option? Will an appropriate level of consultation activities be undertaken Yes N/A Will an access statement be developed and appropriate building user facilities provided? Will building user guides and relevant user information be provided? Yes 1 N/A Will a post occupancy evaluation assessment be undertaken and information disse 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 Pre-Assessment result indicates the minimum standards for Outstanding level Comments/notes Man05 Life cycle cost and service life planning No. of BREEAM credits available Available contribution to overall score 1.64% No. of BREEAM innovation credits available Minimum standards applicable No Indicative credits Shell & Core Pre-Assessment question/criteria option? Response Will a feasibility stage Life Cycle Cost (LCC) analysis be commissioned and completed? Will a strategic and system level LCC be commissioned and completed? N/A No 0 N/A No Will a technical design LCC to be commissioned and cor N/A Total indicative BREEAM credits achieved Total indicative contribution to overall building score 0.00% N/A Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level N/A Comments/notes: **HEALTH & WELLBEING** 15.00% Section Weighting Indicative Section Score 11.00% **Hea01 Visual Comfort** No. of BREEAM credits available Available contribution to overall score 4.00% No. of BREEAM innovation credits available Minimum standards applicable 1 Yes Shell & Core Pre-Assessment question/criteria Response Credits available achieved option? Will all fluorescent lamps be fitted with high frequency ballasts? Will all relevant building areas be designed to achieve the appropriate daylight factor(s)? Will the design provide adequate glare control and view out for building users? Will internal/external lighting be specified in accordance with the relevant CIBSE Guides/British Standards? Yes N/A N/A N/A Yes N/A Yes N/A Will all relevant building areas be designed to achieve exemplary level daylight factor(s)? N/A Total indicative BREEAM credits achieved Total indicative contribution to overall building score 4.00% Total indicative BREEAM innovation credits achieved 0 Indicative minimum standard(s) level Pre-Assessment result indicates the minimum standards for Outstanding level Comments/notes Hea02 Indoor Air Quality

Will the building be designed to minimise sources of internal air pollution? Will the relevant products be specified to meet the VOC testing and emission levels required? Yes N/A BREEAM 2011 Pre-Assessment Estimator © BRE Global Ltd 30/04/2014 Section 2 - Page 2

Available contribution to overall score

Credits available

1

Yes

Yes

Minimum standards applicable

Indicative credits

1

4.00%

Shell & Core

option?

N/A

No. of BREEAM credits available

No. of BREEAM innovation credits available

Pre-Assessment question/criteria



BREEAM 2011 New Construction Pre-Assessment Estimator					
Will formaldehyde and total VOC levels be measured		No	1	0	N/A
Will the building be designed to, or have the potential to provide, r	latural ventilation?	No	1	0	N/A
Total indicative BREEAM credits achieved	2				
Total indicative contribution to overall building score	2.00%				
Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A				
Comments/notes:					
Comments/notes:					
Hea03 Thermal Comfort					
No. of BREEAM credits available	2	ŀ	Available contributi	on to overall score	2.00%
No. of BREEAM innovation credits available	0		Minimum st	andards applicable	No
				Indicative credits	Shell & Core
Pre-Assessment question/criteria		Response	Credits available	achieved	option?
Will thermal modelling of the des Will the modelling inform the development of a thermal zoning an		No No	1	0	N/A N/A
Total indicative BREEAM credits achieved					
Total indicative BREEAM credits achieved 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:					
Hea04 Water Quality					
·				. "	
No. of BREEAM credits available No. of BREEAM innovation credits available	0			on to overall score andards applicable	1.00% Yes
Pre-Assessment question/criteria		Response	Credits available	Indicative credits achieved	Shell & Core option?
Will all water systems be designed to comply with the relevant HSE Approved Code of Practice of the Code of The Co		Yes	4	4	N/A
Where humidification is to be provided, will a failsafe humidification sy Will a wholesome supply of accessible, clean and fresh drinking water be supplied		N/A Yes	1	1	N/A N/A
Total indicative BREEAM credits achieved	1				
Total indicative contribution to overall building score	1.00%				
Total indicative BREEAM innovation credits achieved	N/A				
Indicative minimum standard(s) level	Pre-Assessment res	ult indicates the n	ninimum standards	for Outstanding lev	el
Comments/notes:					
Hea05 Acoustic Performance					
	2		Vailable contributi	on to overall egers	2.00%
No. of BREEAM credits available No. of BREEAM innovation credits available	0			on to overall score andards applicable	2.00% No
				Indicative credits	Shell & Core
Pre-Assessment question/criteria		Response	Credits available	achieved	option?
Will/has a suitably qualified acoustician be appointed to provide appropr Will the building meet the relevant acoustic performance standards and tes		Yes Yes	2	2	N/A
		103			IV/ A
Total indicative BREEAM credits achieved Total indicative contribution to overall building score	2.00%				
Total indicative Contribution to over an oblining score Total indicative BREEAM innovation credits achieved	N/A				
Indicative minimum standard(s) level	N/A				
Comments/notes:					



BREEAM 2011 New Construction Pre-Assessment Estimator Hea06 Safety and Security No. of BREEAM credits available Available contribution to overall score 2.00% 2 No. of BREEAM innovation credits available 0 No Indicative credits Shell & Core Credits available Pre-Assessment question/criteria Response achieved option? Where external site areas are present, will safe access be designed for pedestrians and cyclists? Will a suitably qualified security consultant be appointed and security considerations accounted for? N/A N/A N/A N/A Yes N/A Total indicative BREEAM credits achieved 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: **ENERGY** Section Weighting 19.00% Indicative Section Score 10.64% Ene01 Reduction of CO₂ Emissions No. of BREEAM credits available Available contribution to overall score 15 11.40% 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 BREEAM Innovation credits Select the target number of BREEAM credits for the Ene01 issue Total indicative BREEAM credits achieved Total indicative contribution to overall building score 4.56% Total indicative BREEAM innovation credits achieved 0 Indicative minimum standard(s) level Pre-Assessment result indicates the minimum standards for Excellent level Comments/notes: **Ene02 Energy Monitoring** No. of BREEAM credits available Available contribution to overall score 1.52% No. of BREEAM innovation credits available Minimum standards applicable Yes Shell & Core Indicative credits Pre-Assessment question/criteria meters be specified to monitor energy use from major building services ub-meters be specified to monitor energy use by tenant/building functi Option 1 Yes N/A Total indicative BREEAM credits achieved Total indicative contribution to overall building score 1.52% Total indicative BREEAM innovation credits achieved N/A Indicative minimum standard(s) level Pre-Assessment result indicates the minimum standards for Outstanding level



REEEAM 2011 New Construction Pre-Assessment Estimator		
e03 External Lighting		
No. of BREEAM credits available No. of BREEAM innovation credits available	0	Available contribution to overall score 0.76% Minimum standards applicable No
	·	Indicative credits Shell & Co
e-Assessment question/criteria	DDEEANA -uit-ui-2	Response Credits available achieved option?
Will external light fittings and controls be specified in accordance with the		Yes 1 1 Option 1
Total indicative BREEAM credits achieved Total indicative contribution to overall building score	1 0.76%	
Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A	
	NA	
mments/notes:		
e04 Low and Zero Carbon Technology		
No. of BREEAM credits available	5	Available contribution to overall score 3.80%
No. of BREEAM innovation credits available	1	Minimum standards applicable Yes
e-Assessment question/criteria		Indicative credits Shell & Co Response Credits available achieved option?
Compliant LZC feasibility study		
What will be the intended scope of the Target percentage net reduction in operational sta		
Please confirm the intended energy source of the Low and/or ze Free cooling - credit not ach		
Total indicative BREEAM credits achieved	3	-1 10 1 1/1
Total indicative contribution to overall building score	2.28%	
Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	1 Pre-Assessment re	result indicates the minimum standards for Outstanding level
mments/notes:		
e05 Energy Efficient Cold Storage		Assessment Issue Not Applic
No. of BREEAM credits available No. of BREEAM innovation credits available	N/A N/A	Available contribution to overall score N/A Minimum standards applicable N/A
		Indicative credits Shell & Co
-Assessment question/criteria		Response Credits available achieved option?
Total indicative BREEAM credits achieved Total indicative contribution to overall building score	N/A N/A	
Total indicative BREEAM innovation credits achieved	N/A	
Indicative minimum standard(s) level	N/A	
mments/notes:		
e06 Energy Efficient Transportation Systems		Assessment Issue Not Applic
No. of BREEAM credits available	N/A	Available contribution to overall score N/A
No. of BREEAM credits available No. of BREEAM innovation credits available	N/A N/A	
		Available contribution to overall score N/A

BREEAM 2011 New Construction Pre-Assessment Estimator					
Total indicative BREEAM credits achieved	N/A				
Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	N/A N/A				
Indicative minimum standard(s) level	N/A N/A				
Comments/notes:					
Comments					
Ene07 Energy Efficient Laboratory Systems				Assessment Issu	ue Not Applicabl
No. of BREEAM credits available	N/A	Av	vailable contributi	on to overall score	N/A
No. of BREEAM innovation credits available	N/A		Minimum st	andards applicable	N/A
				Indicative credits	Shell & Core
Pre-Assessment question/criteria		Response	Credits available	achieved	option?
Total indicative BREEAM credits achieved	N/A				
Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	N/A N/A				
Indicative minimum standard(s) level	N/A				
Comments/notes:					
Ene08 Energy Efficient Equipment					
Ene08 Energy Efficient Equipment No. of BREEAM credits available	2	A	vailable contributi	on to overall score	1.52%
	2 0	Ai		on to overall score andards applicable	1.52% No
No. of BREEAM credits available		At	Minimum st		
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria	0		Minimum sta Significant majority		
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria Which of the following will be present and likely to be a/the major contributor to 'unregulated' energy use:	0	Present	Minimum sta Significant majority contributor		
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl	0 ug in equipment? Swimming pool?	Present Yes No	Minimum sta Significant majority		
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl	0 ug in equipment?	Present Yes No No	Minimum sta Significant majority contributor		
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pi Co	0 ug in equipment? Swimming pool? mmunal laundry? Data centre? operation areas?	Present Yes No No No No	Minimum sta Significant majority contributor		
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive	0 g in equipment? Swimming pool? mmunal laundry? Data centre? operation areas? Residential areas? Healthcare?	Present Yes No	Minimum sta Significant majority contributor		
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive	0 ug in equipment? Swimming pool? mmunal laundry? Data centre? operation areas? Residential areas?	Present Yes No	Minimum sta Significant majority contributor		
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive	0 g in equipment? Swimming pool? mmunal laundry? Data centre? operation areas? Residential areas? Healthcare?	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable	No Shell & Core
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive	0 ug in equipment? Swimming pool? mmunal laundry? Data centre? operation areas? Sesidential ares? Healthcare? atering facilities?	Present Yes No	Minimum sta Significant majority contributor	andards applicable	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the	0 ug in equipment? Swimming pool? mmunal laundry? Data centre? operation areas? tesidential areas? Healthcare? atering facilities?	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive	0 ug in equipment? Swimming pool? mmunal laundry? Data centre? operation areas? Sesidential ares? Healthcare? atering facilities?	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and. Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative DREEAM credits available	oug in equipment? Swimming pool? Inmunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Active in the service of the s	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No	Minimum sta Significant majority contributor Yes	andards applicable Indicative credits achieved	No Shell & Core option?
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pi Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes:	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No	Minimum sta Significant majority contributor Yes	Indicative credits achieved	No Shell & Core option? Option 1
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pl Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No	Minimum sta Significant majority contributor Yes	Indicative credits achieved	No Shell & Core option? Option 1
No. of BREEAM credits available No. of BREEAM innovation credits available 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/pi Co IT-intensive Kitchen and Will the significant majority contributor(s) to 'unregulated' energy use (above) meet the Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes:	oug in equipment? Swimming pool? Immunal laundry? Data centre? Operation areas? Residential areas? Healthcare? Latering facilities? BREEAM criteria? 2 1.52% N/A	Present Yes No No No No No No No No No N	Minimum sta Significant majority contributor Yes Credits available 2	Indicative credits achieved	No Shell & Core option?



					Indicative credits	Shell & Core
e-Assessment question/criteria			Response	Credits available	achieved	option?
	Total indicative BREEAM credits achieved	N/A				
	Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	N/A N/A				
	Indicative minimum standard(s) level	N/A				
mments/notes:						
ANSPORT	Section Weighting	8.00%		Indicativ	e Section Score	6.22%
01 Public Transport Accessibility	No of DOCTAM availty available	Ē		Available contrib	on to overall coore	A A 40/
	No. of BREEAM credits available No. of BREEAM innovation credits available	5 0		Available contributi Minimum sta	on to overall score	4.44% No
-Assessment question/criteria						
			of public transpo	rt, i.e. large urban/n	netropolitan city cer	ntre
	Building's indicative Accessibility Index Does the building have a dedicated bus service?	18				
	Total indicative BREEAM credits achieved	5				
	Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	4.44% N/A				
	Indicative minimum standard(s) level	N/A				
nments/notes:						
				Available contributi Minimum sta	on to overall score	0.89% No
mments/notes: 02 Proximity to Amenities	Indicative minimum standard(s) level	N/A				
02 Proximity to Amenities	Indicative minimum standard(s) level	1 0	Response Yes		andards applicable	No
02 Proximity to Amenities	Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available	1 0	Response	Minimum sta	Indicative credits achieved	No Shell & Core option?
02 Proximity to Amenities	Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative contribution to overall building score	N/A 1 0 licable amenities? 1 0.89%	Response	Minimum sta	Indicative credits achieved	No Shell & Core option?
02 Proximity to Amenities	Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved	N/A 1 0 licable amenities?	Response	Minimum sta	Indicative credits achieved	No Shell & Core option?
02 Proximity to Amenities -Assessment question/criteria	Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Total indicative BREEAM innovation credits achieved	1 0 licable amenities? 1 0.89% N/A	Response	Minimum sta	Indicative credits achieved	No Shell & Core option?
02 Proximity to Amenities -Assessment question/criteria	Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Total indicative BREEAM innovation credits achieved	1 0 licable amenities? 1 0.89% N/A	Response	Minimum sta	Indicative credits achieved	No Shell & Core option?
02 Proximity to Amenities -Assessment question/criteria	Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Total indicative BREEAM innovation credits achieved	1 0 licable amenities? 1 0.89% N/A	Response	Minimum sta	Indicative credits achieved	No Shell & Core option?
02 Proximity to Amenities -Assessment question/criteria	Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative breeam innovation credits achieved	1 0 licable amenities? 1 0.89% N/A	Response	Minimum sta	Indicative credits achieved	No Shell & Core option?
O2 Proximity to Amenities -Assessment question/criteria	Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative breeam innovation credits achieved	1 0 licable amenities? 1 0.89% N/A	Response	Minimum sta	Indicative credits achieved	No Shell & Corr option?
O2 Proximity to Amenities -Assessment question/criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	1 0 licable amenities? 1 0.89% N/A N/A	Response Yes	Minimum sta	Indicative credits achieved	No Shell & Corr option? N/A
O2 Proximity to Amenities -Assessment question/criteria	Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative breeam innovation credits achieved	1 0 licable amenities? 1 0.89% N/A	Response Yes	Minimum sta	Indicative credits achieved	No Shell & Core option?
02 Proximity to Amenities -Assessment question/criteria	No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available	1 0 licable amenities? 1 0.89% N/A N/A 2	Response Yes	Minimum sta	Indicative credits achieved 1	No Shell & Corr option? N/A
02 Proximity to Amenities -Assessment question/criteria	No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	1 0 licable amenities? 1 0.89% N/A N/A 2	Response Yes	Minimum sta	Indicative credits achieved 1	No Shell & Corr option? N/A
	No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available	1 0 licable amenities? 1 0.89% N/A N/A 2	Response Yes	Minimum sta	Indicative credits achieved 1	No Shell & Corr option? N/A
-Assessment question/criteria	No. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available	1 0 licable amenities? 1 0.89% N/A N/A N/A 2 0 consiste assessment)?	Response Yes Other Building - t	Available contributi Minimum sta	Indicative credits achieved 1 on to overall score and ards applicable Indicative credits	No Shell & Corr option? N/A 1.78% No
-Assessment question/criteria	No. of BREEAM credits available No. of BREEAM innovation credits available Will the building be in close proximity of and accessible to app Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level No. of BREEAM credits available No. of BREEAM innovation credits available What is the building type category (for the purpose of Tra03 is	1 0 licable amenities? 1 0.89% N/A N/A N/A 2 0 consiste assessment)?	Response Yes Other Building - t Response No	Available contributi Minimum sta	Indicative credits achieved 1 on to overall score and ards applicable Indicative credits achieved	No Shell & Corroption? N/A 1.78% No Shell & Corroption? N/A



DDEEAM 2011 Now Construction Dro Assassment Estimator			
BREEAM 2011 New Construction Pre-Assessment Estimator			
Tra04 Maximum Car Parking Capacity		Assessment Issu	e Not Applicable
No. of BREEAM credits available	N/A	Available contribution to overall score	N/A
No. of BREEAM innovation credits available	N/A	Minimum standards applicable	N/A
Building type category (for the purpo			
Buildings indicative Accessibility Index (sourced	from issue Trau1)		
		Indicative credits	Shell & Core
Pre-Assessment question/criteria Will the building meet BREEAM's maximum parking capacity criteria for this building type//	Accessibility Index?	Response Credits available achieved	option?
		ا	
Total indicative BREEAM credits achieved Total indicative contribution to overall building score	N/A		
Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	N/A N/A		
Indicative minimum standard(s) level	N/A		
Comments/notes:			
Commency flotes.			
Tra05 Travel Plan			
No. of BREEAM credits available No. of BREEAM innovation credits available	0	Available contribution to overall score Minimum standards applicable	0.89% No
NO. OF BILELANT HITOVALION CIECUIS AVAILABLE	U	willimum standards applicable	NO
Pre-Assessment question/criteria		Indicative credits Response Credits available achieved	Shell & Core option?
Will a transport plan based on site specific travel survey/assessm	ent be developed?	Yes 1 1	N/A
Total indicative BREEAM credits achieved Total indicative contribution to overall building score	1 0.89%		
Total indicative BREEAM innovation credits achieved	N/A		
Indicative minimum standard(s) level	N/A		
Comments/notes:			
WATER	C-000/	to disable 6 still 6	2.00%
WATER Section Weighting	6.00%	Indicative Section Score	3.00%
Wat01 Water Consumption			
No. of BREEAM credits available	5	Available contribution to overall score	3.75%
No. of BREEAM innovation credits available	1	Available contribution to overall score Minimum standards applicable	3.75% Yes
			Shell & Core option?
Select the level that corresponds closely to the target or likely water compo	nent specification?	Level 4 - Four credits	Option 1
Total indicative BREEAM credits achieved	4		
Total indicative contribution to overall building score	3.00%		
Total indicative BREEAM innovation credits achieved	0	and to discount the second	.1
Indicative minimum standard(s) level	Pre-Assessment re	sult indicates the minimum standards for Outstanding leve	21
Comments/notes:			
1			
Wat02 Water Monitoring			
Wat02 Water Monitoring No. of BREEAM credits available	1	Available contribution to overall score	0.75%

Indicative credits Shell & Core option?

Response

BREEAM 2011 New Construction Pre-Assessment Estimator					
Will there be a water meter on the mains water supply		Yes	1	0	N/A
Will metering/monitoring equipment be specified on the water supply to any relevant pla Will all specified water meters have		No No	_		
If the site/building has an existing BMS connection, will all pulsed meters be connection.		No			
			=		
Total indicative BREEAM credits achieved	0				
Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	0.00% N/A				
Indicative minimum standard(s) level		sult indicates the r	minimum standard	ds for Outstanding I	evel
malcative minimum standard(s) level	TTC ASSESSMENT TES	suit maicutes the i	minimani standare	as for Outstanding i	CVCI
Comments/notes:					
Wat03 Water Leak Detection and Prevention					
No. of BREEAM credits available	2		Available contribu	ition to overall score	e 1.50%
No. of BREEAM innovation credits available	0		Minimum s	standards applicable	e No
				India-45	c ch-11.0.0
Pre-Assessment question/criteria		Response	Credits available	Indicative credits e achieved	s Shell & Core option?
Will a mains water leak detection system be installed on the building's many	ains water supply?	No	1	0	N/A
Will flow control devices be installed in each san		No	1	0	N/A
Total indicative DDFF484 and the advisor	0				
Total indicative BREEAM credits achieved Total indicative contribution to overall building score	0.00%				
Total indicative Contribution to over an obliging score Total indicative BREEAM innovation credits achieved	N/A				
Indicative minimum standard(s) level	N/A				
Comments/notes:					
Wat04 Water Efficient Equipment				Assessment Is	ssue Not Applicable
amount adolphions					30 Applicable
					_
No. of BREEAM credits available	N/A			ition to overall score	
No. of BREEAM credits available No. of BREEAM innovation credits available	N/A N/A			ition to overall score	
					e N/A
		Response		standards applicable	e N/A
No. of BREEAM innovation credits available			Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-Assessment question/criteria	N/A		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available			Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved	N/A N/A		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative contribution to overall building score	N/A N/A N/A		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-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		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	N/A N/A N/A N/A		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-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		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-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		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-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		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-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		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-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		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-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		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-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 Comments/notes:	N/A N/A N/A N/A		Minimum	standards applicable	s Shell & Core
No. of BREEAM innovation credits available Pre-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		Minimum s	standards applicable	e N/A s Shell & Core option?
No. of BREEAM innovation credits available Pre-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 Comments/notes: MATERIALS Section Weighting	N/A N/A N/A N/A		Minimum s	standards applicable Indicative credit: e achieved	e N/A s Shell & Core option?
No. of BREEAM innovation credits available Pre-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 Comments/notes:	N/A N/A N/A N/A		Minimum s	standards applicable Indicative credit: e achieved	e N/A s Shell & Core option?
No. of BREEAM innovation credits available Pre-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 Comments/notes: MATERIALS Section Weighting	N/A N/A N/A N/A	Response	Minimum s Credits available	standards applicable Indicative credit: e achieved	e N/A s Shell & Core option?
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative breeam innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts	N/A N/A N/A N/A N/A 12.50%	Response	Minimum s Credits available Indicati	Indicative credit: e achieved ive Section Score	e N/A s Shell & Core option? e 10.42%
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available	N/A N/A N/A N/A N/A 12.50%	Response	Minimum s Credits available Indicati	ive Section Score	e N/A s Shell & Core option? e 10.42%
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria	N/A N/A N/A N/A N/A 12.50%	Response	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achieved	N/A N/A N/A N/A N/A 12.50%	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria	N/A N/A N/A N/A N/A 12.50%	Response	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achieved	N/A N/A N/A N/A N/A 12.50%	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achieved	N/A N/A N/A N/A N/A 12.50%	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achieved	N/A N/A N/A N/A N/A 12.50%	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achieved	N/A N/A N/A N/A N/A 12.50%	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achieved	N/A N/A N/A N/A N/A 12.50%	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achieved	N/A N/A N/A N/A N/A 12.50%	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achieved	N/A N/A N/A N/A N/A 12.50%	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available No. of BREEAM credits available Select the number of BREEAM credits being targeted for select the number of BREEAM credits achieved t	N/A N/A N/A N/A N/A N/A 12.50% 5 1 ved for this issue? or the Mat01 issue	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
Pre-Assessment question/criteria Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achieved Select the number of BREEAM credits being targeted for select the number of BREEAM credits achieved	N/A N/A N/A N/A N/A N/A 12.50% 5 1 ved for this issue? or the Mat01 issue	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No
No. of BREEAM innovation credits available Total indicative BREEAM credits achieved Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Comments/notes: MATERIALS Section Weighting Mat01 Life Cycle Impacts No. of BREEAM credits available No. of BREEAM innovation credits available No. of BREEAM innovation credits available No. of BREEAM credits available Select the number of BREEAM credits being targeted for select the number of BREEAM credits achieved t	N/A N/A N/A N/A N/A N/A 12.50% 5 1 ved for this issue? or the Mat01 issue	Response Define a target no	Minimum s Credits available Indicati Available contribu Minimum s	ive Section Score	e N/A s Shell & Core option? e 10.42% e 5.21% e No



BREEAM 2011 New Construction Pre-Assessment Estimator			
Comments/notes:			
Mat02 Hard Landscaping and Boundary Protection No. of BREEAM credits available	1	Available contribution to overall score	1.04%
No. of BREEAM innovation credits available		Minimum standards applicable	No
Pre-Assessment question/criteria		Indicative credits Response Credits available achieved	Shell & Core option?
Will ≥80% of all external hard landscaping and boundary protection achieve a Green G	uide A or A+ rating?		N/A
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:			
Mat03 Responsible Sourcing			
No. of BREEAM credits available No. of BREEAM innovation credits available		Available contribution to overall score Minimum standards applicable	3.13% Yes
Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits ach	eved for this issue?		
Select the number of BREEAM credits being targeted Will all timber used on the project be sourced in accordance with the UK Govt's Timber P		3 BREEAM Innovation credits Yes	0
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 re	sult indicates the minimum standards for Outstanding level	
Comments/notes:			
Mat04 Insulation			
No. of BREEAM credits available No. of BREEAM innovation credits available		Available contribution to overall score Minimum standards applicable	2.08% No
		Indicative credits	Shell & Core
Pre-Assessment question/criteria Is the building targeting an insulating	index of 2 or more?	Response Credits available achieved Yes 1 1	option? N/A
Will the building's insulating materials be re	sponsibly sourced?	Yes 1 1	N/A
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		



BREEAM 2011 New Construction Pre-Assessment Estimator			
Mat05 Designing for Robustness			
No. of BREEAM credits available	1	Available contribution to overall score	1.04%
No. of BREEAM innovation credits available	0	Minimum standards applicable	N/A
Pre-Assessment question/criteria		Response Credits available achieved	Shell & Core option?
Will suitable durability/protection measures be specified and installed to vulnerable are		No 1 0	N/A
Total indicative BREEAM credits achieved Total indicative contribution to overall building score	0 0.00%		
Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A		
Comments/notes:			
WASTE Section Weighting	7.50%	Indicative Section Score	6.25%
Wst01 Construction Waste Management			
No. of BREEAM credits available	4	Available contribution to overall score	5.00%
No. of BREEAM innovation credits available	1	Minimum standards applicable	Yes
Pre-Assessment question/criteria			
How do you wish to assess the number of BREEAM credits achi Select the number of BREEAM credits being targeted		Define a target number of BREEAM credits to be achieved BREEAM Innovation credits	1
Total indicative BREEAM credits achieved	3		
Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	3.75% 0		
	Pre-Assessment re	sult indicates the minimum standards for Outstanding leve	el
Comments/notes:			
Wict02 Recycled Aggregates			
Wst02 Recycled Aggregates No. of BREFAM credits available	1	Available contribution to overall score	1.25%
Wst02 Recycled Aggregates No. of BREEAM credits available No. of BREEAM innovation credits available	1 1	Available contribution to overall score Minimum standards applicable	1.25% No
No. of BREEAM credits available No. of BREEAM innovation credits available			
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achi	1 eved for this issue?	Minimum standards applicable Define a target number of BREEAM credits to be achieved	No
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria	1 eved for this issue?	Minimum standards applicable	No
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achi	1 eved for this issue?	Minimum standards applicable Define a target number of BREEAM credits to be achieved	No
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achi	1 eved for this issue?	Minimum standards applicable Define a target number of BREEAM credits to be achieved	No
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achi	1 eved for this issue?	Minimum standards applicable Define a target number of BREEAM credits to be achieved	No
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achi	1 eved for this issue?	Minimum standards applicable Define a target number of BREEAM credits to be achieved	No
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achi	1 eved for this issue?	Minimum standards applicable Define a target number of BREEAM credits to be achieved	No
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achi Select the number of BREEAM credits being targeted	1 eved for this issue? for the Wst02 issue	Minimum standards applicable Define a target number of BREEAM credits to be achieved	No
No. of BREEAM credits available No. of BREEAM innovation credits available Pre-Assessment question/criteria How do you wish to assess the number of BREEAM credits achi	1 eved for this issue?	Minimum standards applicable Define a target number of BREEAM credits to be achieved	No



BREEAM 2011 New Construction Pre-Assessment Estimator					
st03 Operational Waste					
No. of BREEAM credits available No. of BREEAM innovation credits available	1 0			ion to overall score	1.25% Yes
NO. OF DICEASM INTOVIDUO GEGLIS GRANDOC	U		William St	Indicative credits	Shell & Core
e-Assessment question/criteria		Response	Credits available	achieved	option?
Will appropriate facilities for the storage of operational recyclable waste vol If relevant, will a static waste compactor(s) or baler(s) be		Yes N/A	1	1	N/A N/A
If relevant, will a vessel for composting suitable organic waste be	specified/installed?	N/A			N/A
Total indicative BREEAM credits achieved	1				
Total indicative contribution to overall building score	1.25%				
Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A Pre-Assessment res	sult indicates the r	ninimum standards	s for Outstanding lev	el
mments/notes:					
st04 Speculative Floor and Ceiling Finishes				Assessment Issu	ue Not Applica
No. of BREEAM credits available				ion to overall score	N/A
No. of BREEAM innovation credits available	N/A		Minimum st	andards applicable	N/A
According to the second section (section)		Doononee	Cradita available	Indicative credits	Shell & Core
e-Assessment question/criteria		Response	Credits available	achieved	option?
Total indicative BREEAM credits achieved	N/A				
Total indicative contribution to overall building score					
Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A				
mments/notes:					
AND USE & ECOLOGY Section Weighting	10.00%		Indicativ	ve Section Score	6.00%
01 Site Selection					
	2		Augilahla gantzihut	ion to overall seems	2.00%
No. of BREEAM credits available No. of BREEAM innovation credits available	0			ion to overall score andards applicable	2.00% No
				Indicative credits	Shell & Core
e-Assessment question/criteria Will at least 75% of the proposed development's factoring be located on previously be	an developed land?	Response	Credits available	achieved	option?
Will at least 75% of the proposed development's footprint be located on previously be Is the site deemed to be significa		Yes No	1	0	N/A N/A
Total indicative BREEAM credits achieved	1				
Total indicative contribution to overall building score	1.00%				
Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A				
mments/notes:					
02 Ecological Value of Site and Protection of Ecological Features					
No. of BREEAM credits available	1		Available contribut	ion to overall score	1.00%
No. of BREEAM innovation credits available	0		Minimum st	andards applicable	No

Indicative credits Shell & Core
Credits available achieved option?

Response



Can the land within the construction zone be defined as 'land of low		Yes	1	1	N/A
Will all features of ecological value surrounding the construction zone/site bound	ary be protected?	Yes			N/A
Total indicative BREEAM credits achieved	1				
Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	1.00% N/A				
Indicative minimum standard(s) level	N/A				
nments/notes:					
Mitigating Ecological Impact					
No. of BREEAM credits available	2		Available contributi		2.009
No. of BREEAM innovation credits available	0		Minimum st	andards applicable	Yes
Assessment assessment of the form					
Assessment question/criteria What is the likely change in ecological value (plant species richness) as a result of the si	tes development?	No negative char	nge or improvement	t in plant species ric	nness
			. p	,	
Total indicative BREEAM credits achieved Total indicative contribution to overall building score	2.00%				
Total indicative BREEAM innovation credits achieved	N/A				
Indicative minimum standard(s) level	Pre-Assessment res	ult indicates the	minimum standards	for Outstanding lev	el
ments/notes:					
Enhancing Site Ecology					
No. of BREEAM credits available No. of BREEAM innovation credits available	3 0		Available contributi	ion to overall score andards applicable	3.009 No
NO. OF DIVERNIT INTOVALION CITCUITS AVAILABLE	U		Willimiani Sc		
Assessment question/criteria		Response	Credits available	Indicative credits achieved	Shell & (
Will a suitably qualified ecologist be appointed to report on enhancing and protein				acilieveu	option
vellar STI PC I I v		No	3	0	
Will the suitably qualified ecologists general recommendations What is the targeted/intended improvement in ecological value as a result of enha	be implemented?	No	3		
What is the targeted/intended improvement in ecological value as a result of enha	be implemented? ncement actions?	No	3		
	be implemented?	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	be implemented? ncement actions? 0 0.00% N/A	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score	be implemented? ncement actions? 0 0.00%	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	be implemented? ncement actions? 0 0.00% N/A	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	be implemented? ncement actions? 0 0.00% N/A	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	be implemented? ncement actions? 0 0.00% N/A	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	be implemented? ncement actions? 0 0.00% N/A	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	be implemented? ncement actions? 0 0.00% N/A	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	be implemented? ncement actions? 0 0.00% N/A	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Imments/notes:	be implemented? ncement actions? 0 0.00% N/A	No	3		
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Indicative minimum standard(s) level Indicative minimum standard(s) level	be implemented? ncement actions? 0 0.00% N/A N/A	No		0	N/A
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Imments/notes:	be implemented? ncement actions? 0 0.00% N/A	No	Available contributi	0	N/A
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	be implemented? ncement actions? 0 0.00% N/A N/A	No	Available contributi	ion to overall score	2.00% No
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Indicative minimum standa	be implemented? ncement actions? 0 0.00% N/A N/A	No No Response	Available contributi	0	2.00% No Shell & 0
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score 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 credits available No. of BREEAM innovation credits available Will the building meet BREEAM's mandatory criteria for the standard contribution in the standard contributio	be implemented? ncement actions? 0 0.00% N/A N/A 2 0	Response Yes	Available contributi Minimum st	ion to overall score andards applicable Indicative credits	2.009 No Shell & Coption
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Indicative minimum standa	be implemented? ncement actions? 0 0.00% N/A N/A N/A 2 0 0 sis BREEAM issue? ss on biodiversity?	Response	Available contributi Minimum st Credits available	ion to overall score andards applicable Indicative credits achieved	2.009 No Shell & Coption
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Indicative minimum standard	be implemented? ncement actions? 0 0.00% N/A N/A N/A 2 0 is BREEAM issue? s on biodiversity? ing construction?	Response Yes Yes N/A N/A	Available contributi Minimum st Credits available	ion to overall score andards applicable Indicative credits achieved	2.003 No Shell & option
What is the targeted/intended improvement in ecological value as a result of enha 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	be implemented? ncement actions? 0 0.00% N/A N/A N/A 2 0 0 sis BREEAM issue? so on biodiversity? uring the project? ing construction? area, be created?	Response Yes Yes N/A	Available contributi Minimum st Credits available	ion to overall score andards applicable Indicative credits achieved	2.003 No Shell & option
What is the targeted/intended improvement in ecological value as a result of enhal indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level ments/notes: No. of BREEAM credits available No. of BREEAM innovation credits available Will the building meet BREEAM's mandatory criteria for the Will a Biodiversity Champion be appointed to monitor/minimise impacts of site activities Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor actions to protect biodiversity and monitor their effectiveness of Will a new ecologically valuable habitat, appropriate to the local	be implemented? ncement actions? 0 0.00% N/A N/A N/A 2 0 0 sis BREEAM issue? so on biodiversity? uring the project? ing construction? area, be created?	Response Yes Yes N/A N/A	Available contributi Minimum st Credits available	ion to overall score andards applicable Indicative credits achieved	2.000 No Shell & option
What is the targeted/intended improvement in ecological value as a result of enhal Indicative BREEAM credits achieved Total indicative EREEAM innovation credits achieved Indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Indicative BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available Indicative BREEAM's mandatory criteria for the Will a Biodiversity Champion be appointed to monitor/minimise impacts of site activities Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor record actions to protect biodiversity and monitor their effectiveness of Will a new ecologically valuable habitat, appropriate to the local Where flora/fauna habitats exist on site, will the contractor programme site works to minimal training for the site workforce on how to protect ecology of Will the contractor record actions to protect biodiversity and monitor their effectiveness of the site workforce on how to protect ecology of Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor provide training for the site workforce on how to protect ec	be implemented? ncement actions? 0 0.00% N/A N/A N/A 2 0 is BREEAM issue? so n biodiversity? ing construction? area, be created? mise disturbance?	Response Yes Yes N/A N/A	Available contributi Minimum st Credits available	ion to overall score andards applicable Indicative credits achieved	2.003 No Shell & option
What is the targeted/intended improvement in ecological value as a result of enha Total indicative BREEAM credits achieved Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level Indicative minimum standard(s) level Indicative minimum standard(s) level Mo. of BREEAM credits available No. of BREEAM credits available No. of BREEAM innovation credits available Will the building meet BREEAM's mandatory criteria for the Will a Biodiversity Champion be appointed to monitor/minimise impacts of site activities Will the contractor provide training for the site workforce on how to protect ecology of Will the contractor record actions to protect biodiversity and monitor their effectiveness du Will a new ecologically valuable habitat, appropriate to the local Where flora/fauna habitats exist on site, will the contractor programme site works to mini	be implemented? ncement actions? 0 0.00% N/A N/A N/A 2 0 osis BREEAM issue? so no biodiversity? ing construction? area, be created? nise disturbance?	Response Yes Yes N/A N/A	Available contributi Minimum st Credits available	ion to overall score andards applicable Indicative credits achieved	2.009 No Shell & C option



BREEAM 2011 New Construc	ction Pre-Assessment Estimator				
POLLUTION	Section Weighting	10.00%		Indicative Section Score	8.46%
Pol01 Impact of Refrigerants					
	No. of BREEAM credits available No. of BREEAM innovation credits available	3		Available contribution to overall score Minimum standards applicable	No
Pre-Assessment question/criteria			Response	Indicative credits Credits available achieved	Shell & Core option?
	Will refrigerant containing systems be installed in the Is the Global Warming Potential of the specified refrigerant(s) like What is the target range Direct Effect Life Cycle CO₂eq. emissio Will a refrigerant leak detection and containment system be s	ly to be 10 or less? ons for the system?	Yes Yes No	kgCO2eq/kW coolth capacity	Option 1 Option 1
	Total indicative BREEAM credits achieved	2			
	Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	1.54% N/A			
Comments/notes:	Indicative minimum standard(s) level	N/A			
eeay roses					
Pol02 NO _x Emissions					
	No. of BREEAM credits available No. of BREEAM innovation credits available	3		Available contribution to overall score Minimum standards applicable	
Pre-Assessment question/criteria			Response		Shell & Core option?
Fre-Assessment question/unteria	Please enter the target/maximum NO _x emission level for spa	ace heating system	40.00	mg/kWh	Option 1
	Total indicative BREEAM credits achieved	3			
	Total indicative contribution to overall building score Total indicative BREEAM innovation credits achieved	2.31% N/A			
	Indicative minimum standard(s) level	N/A			
Comments/notes:					
Pol03 Surface Water Run off					
	No. of BREEAM credits available No. of BREEAM innovation credits available	5 0		Available contribution to overall score Minimum standards applicable	
	NO. OF DIEED IN IMPOVACION CIEUTES AVAIIABLE			Indicative credits	Shell & Core
Pre-Assessment question/criteria	What is the actual/likely annual probability of flooding for		Response Low	Credits available achieved 2 2	option?
VACII Abo sile	Will a compliant Flood Risk Assessme Will the site meet the BREEAM criteria for peak rate surf	ace water run off?	Yes Yes	1 1	N/A N/A
	uet the criteria for surface water run off volume, attenuation and/or e designed to minimise watercourse pollution in accordance with the		Yes No	1 1 0	N/A N/A
	Total indicative BREEAM credits achieved Total indicative contribution to overall building score	4 3.08%			
	Total indicative BREEAM innovation credits achieved Indicative minimum standard(s) level	N/A N/A			
Comments/notes:		,			
Pol04 Reduction of Night Time Light F					

Minimum standards applicable

No

No. of BREEAM innovation credits available 0



BREEAM 2011 New Construction Pre-Assessment Estimator Indicative credits Shell & Core Pre-Assessment question/criteria Credits available achieved option? Will the external lighting be designed to reduce light pollution? N/A Total indicative BREEAM credits achieved Total indicative contribution to overall building score 0.77% Total indicative BREEAM innovation credits achieved N/A Indicative minimum standard(s) level N/A Comments/notes: Pol05 Noise Attenuation No. of BREEAM credits available Available contribution to overall score 0.77% No. of BREEAM innovation credits available Ω No Indicative credits Shell & Core Credits available Pre-Assessment question/criteria Response achieved option? Will there be, or is there noise-sensitive areas/buildings within 800m radius of the development? Will a noise impact assessment be completed and, if applicable, noise attenuation measures specified? Yes 1 1 N/A Total indicative BREFAM credits achieved Total indicative contribution to overall building score 0.77% Total indicative BREEAM innovation credits achieved N/A N/A Comments/notes: Section Weighting Indicative Section Score INNOVATION 10.00% Inn01 Innovation No. of BREEAM innovation credits available Available contribution to overall score 10.00% Exemplary level Pre-Assessment question/criteria achieved Credits available achieved Man02 Responsible Construction Practices No Ene01 Reduction of CO2 Emissions Ene04 Low and Zero Carbon Technology No Ene05 Energy Efficient Cold Storage Wat01 Water Consumption N/A No N/A 0 N/A No 0 No 0 Wst01 Construction Waste Management Wst02 Recycled Aggregates No 0 No Total indicative BREEAM credits achieved Total indicative contribution to overall building score 1.00% Indicative minimum standard(s) level N/A Comments/notes: