

THE UNITE GROUP PLC 11-13 ST PANCRAS WAY BREEAM PRE-ASSESSMENT STUDENT ACCOMMODATION



Nov 2012 Project 0106 Revision 11-13 St Pancras Way BREEAM Pre-Assessment Student Accommodation

1.0 INTRODUCTION

This report has been commissioned by The Unite Group PLC to carry out a BREEAM (BRE Environmental Assessment Method) pre-assessment of the proposed development at 11-13 St Pancras Way using the BREEM 2008 Multi-Residential Assessment criteria.

1.1 Objective

The objective of this initial pre-assessment report is to identify at this early stage a route for achieving the aim of a minimum BREEAM rating of Very Good (>55%).

2.0 BREEAM

BREEAM (BRE Environmental Assessment Method) is the most widely used method for assessing the environmental impact of buildings. It sets standards for best practice in sustainable design and has become the de facto measure used to describe a building's environmental performance whether it is new or existing. Standard assessment versions exist for common building types. Less common building types can be assessed against tailored criteria under the Bespoke BREEAM version.

2.1 Rating benchmarks

The rating benchmarks for the 2008 version of BREEAM are outlined below for new buildings and major refurbishments.

BREEAM Rating	% Score
Unclassified	<30
Pass	≥30
Good	≥45
Very Good	≥55
Excellent	≥70
Outstanding*	≥85

* Please note: - there are additional requirements for achieving a BREEAM Outstanding rating.

2.2 Environmental Section Weightings

Once each BREEAM credit has been assessed the category percentage scores achieved are calculated where an environmental weighting is applied. The weighted category scores are then totalled to give a final BREEAM score which is used to determine the BREEAM rating. The environmental weightings are as follows in the table below.



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2.3 Minimum Standards

In order to achieve particular ratings there are minimum standards that need to be met. These particular credits are shown in the table below.

	BRE	EAM Ra	ting /Min credit		mber of
BREEAM issue	PASS	GOOD	VERY GOOD	EXCELLENT	OUTSTANDING
Man 1 - Commissioning	1	1	1	1	2
Man 2 - Considerate Constructors				1	2
Man 4 - Building user guide				1	1
Hea 4 - High frequency lighting	1	1	1	1	1
Hea 12 - Microbial contamination	1	1	1	1	1
Ene 1 - Reduction of CO2 emissions				6	10
Ene 2 - Sub-metering of substantial energy uses			1	1	1
Ene 5 - Low or zero carbon technologies				1	1
Wat 1 - Water consumption	100	1	1	1	2
Wat 2 - Water meter		1	1	1	1
Wst 3 - Storage of recyclable waste				1	1
LE 4 - Mitigating ecological impact			1	1	1



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3.0 BREEAM RATING

An initial review of the BREEAM credits against the proposed scheme has been undertaken with the design team. The table below summarises the likely credits to be awarded to achieve an Very Good rating. As the design develops, further work will be carried out with the design team to provide guidance on meeting the BREEAM criteria as well as targeting possible further credits that will enhance the sustainability of the design to ensure the target rating is achieved. It is likely that the final building will incorporate a mix of these credits as the design develops.

Category	Environmental Weighting	Achieved	Weighted Score
Management	12.00%	91.67%	11.00%
Health and Wellbeing	9.71%	47.06%	7.06%
Energy	12.39%	60.87%	11.57%
Transport	7.11%	88.88%	7.11%
Water	3.75%	50.00%	3.00%
Materials	6.62%	35.29%	4.41%
Waste	6.56%	75.00%	5.63%
Land Use & Ecology	7.00%	70.00%	7.00%
Pollution	7.27%	27.27%	2.73%
Innovation Credits	1.00%	10.00%	1.00%
TOTAL		The state of the second	60.50%

Table 1 - Pre-assessment BREEAM scoring

The table above shows that at this stage, the development will achieve a score of 60.50% which is a rating of Very Good.



Interim - Design Stage

BREEAM Scheme: BREEAM Multi-residential	2008	Pass	30%
Building Name: Unite TP		Good	45%
BREEAM Registration No.: 0		Very Good	55%
BREEAM Assessor: Stuart Daniels		Excellent	70%
icensed Assessor organisation: Applied Energy		Outstanding	85%
BREEAM Assessor: Stuart Daniels	BREEAM Score	Excellent	70% 85%

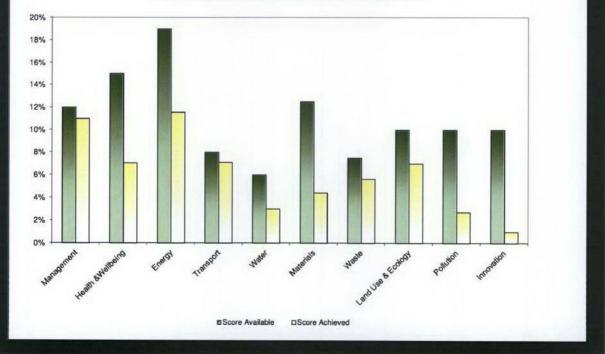
Minimum BREEAM Standards												
Rating Level	Pass	Good	Very Good	Excellent	Outstanding							
Minimum Standards Achieved	YES	YES	YES	YES	NO							

60.50%

VERY GOOD

	Buil	ding Performance	by Section		
	Environmental weighting	Credits available	Credits achieved	% Achieved	Weighted Score
Management	12.00%	12.00	11.00	91.67%	11.00%
Health & Wellbeing	15.00%	17.00	8.00	47.06%	7.06%
Energy	19.00%	23.00	14.00	60.87%	11.57%
Transport	8.00%	9.00	8.00	88.89%	7.11%
Water	6.00%	8.00	4.00	50.00%	3.00%
Materials	12.50%	17.00	6.00	35.29%	4.41%
Waste	7.50%	8.00	6.00	75.00%	5.63%
Land Use & Ecology	10.00%	10.00	7.00	70.00%	7.00%
Pollution	10.00%	11.00	3.00	27.27%	2.73%
Innovation	10.00%	10.00	1.00	10.00%	1.00%
			T	otal BREEAM Score	60.50%





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					Pass	REEAM Assesso Minim Good	um BREEAM	Itandarda	Outstanding	
			Number of BREEAM credits	Total BREEAM	Achieved?	YES	YES	YES	NO	
d lacence	Title ement	Multi-residential Criteria	available	credits achieved						Comments/Actions
an 1	Commissioning	One credit where evidence provided demonstrates that an appropriate project team member has been appointed to monitor commissioning on behall of the altert to ensure commissioning will be carried out if here with current best practice. Two credits where, in addition to the above, evidence provided demonstrates that seeonal commissioning will be carried out during the first year of occupation, post construction (or post fit out).	2	2	1	r	1	1	2	
an 2	Considerate Constructors	One credit where evidence provided demonstrates that there is a commitment to benedy with best practice site management principles. Two orients where evidence provided demonstrates that there is a commitment to go beyond best practice site management principles.	2	2		•		1	2	
an 3	Construction Site Impacts	One credit where evidence provided demonstrates that 2 or more of lema arg (listed below) are achieved. Two oresits where evidence provided demonstrates that 4 or more of lems arg (listed below) are achieved. Three credits where evidence provided demonstrates that 6 or more of items arg are achieved. Monitor, report and set targets for CO2 or energy arising from wite activities b. Monitor, report and set targets for CO2 or energy arising from site activities b. Monitor, report and set targets for CO2 or energy arising from site activities d. Implement beat practice policies in respect of ari (dust) policion writing from the activities in the site of the set of the arise a. Implement beat practice policies in respect of aris (dust) policion retaing from the arise a. Main contractor presents an environmental materials policy, used for sourcing of constructor materials to be utilised on alle g. Main contractor operates and Environmental Management Bystem. One additional credit where evidence provided demonstrates that at least 80% of alle timber is responsibly sourced and 100% is legally sourced.	4	4						
an 4	Building user guide	One credit where evidence provided demonstrates the provision of a simple guide that covers information relevant to the tenant/occupants and non-technical building manager on the operation and environmental performance of the building.	1	1				1	1	

Unite TP BREEAM_2008_Assessment_Tool_rev17.abs/BREEAM Credits

Man 8	Consultation	One credit where evidence provided demonstrates that consultation has been, or is being, undertaken and feedback given to the local community and building users. In addition, advice should also have been sought from any relevant national and local history, unchanological does or reliary history groups regarding the heritage value of the building/alter/unroundings. Two credits where, in addition to the above, evidence provided demonstrates that changes to the design and/or action has been taken as a result of the above ponsultation process. This should include the protection of any parts of the building for site) having historics in heritage value in accordance with independent advice from the relevant body.	2	1					
Man B	Becurity	One credit where evidence provided demonstrates that an Architectural Lisison Officer (ALC) or Crime Prevention Design Advisor (CPDA) from the local police force has been consulted at the design stage and their incompresidence incorporated into the design of the building and its parting facilities (it relevant).	1	1		•	•		

Unite TP BREEAM_2008_Assessment_Tool_nw17.xbs8REEAM Credits

Health	& Wellbeing	A REPORT OF THE PARTY OF THE PA	-	1			-				
tion 1	Daylighting	One credit where evidence provided demonstrates that at least 80% of floor area in each occupied spece is adequately daylit.	1		0						
Hana 2	View Out	One credit where wideros picy/ded demonstrates that all relevant building areas have an adequate view out.	1		1			•			
Hen 3	Glare Control	One credit where evidence provided demonstrates that an occupant-controlled shading system (e.g. Internal or external blinds) is fitted in relevant building area.	1		0		-		•		
Hea 4	High frequency lighting	One credit where evidence provided demonstrates that high frequency beliests are natalled on all fluorescent and compact fluorescent lamps.	1		1	1	1	1	1	1	
Heat 5	Internal and external lighting levels.	One credit where evidence provided demonstrates that all internal and external lighting, where relevant, is specified in accordance with the appropriate maintained illuminance levels (in lur) recommended by CIBSE.	1		1			•		•	
Hea 7	Potential for natural ventilation	One credit where evidence provided demonstrates that fresh air is capable of being delivered to the occupied spaces of the building via a natural venillation strategy, and there is sufficient user-control of the supply of tresh air.	1		0		÷	•		•	
Hea 8	Indoor air quality	One credit where air intakes serving occupied areas avoid major sources of external pollution and recirculation of exhaust air.	1		0		•				
Hea 9	Volatile Organic Compounds	One shell where evidence provided demonstrates that the emissions of VOCs and other substances from key internal finishes and titings comply with best practice levels.	1		0						
Hea 10	Thermal comfort	One credit where evidence provided demonstrates that thermal control levels in occupied spaces of the building are assessed at the design stage to evaluate appropriate servicing options, ensuring appropriate thermal control levels are achived.	1		0						
Hen 11	Thermal zoning	One credit where evidence provided demonstrates that local occupant control is available for temperature adjustment in each occupied space to reflect differing user demands.	1		1			•		•	
Hea 12	Microbial contamination	One credit where evidence provided demonstrates that the risk of waterborne and althorne legionelia contamination has been minimised.	1		1	1	1	1	1	1	
Hea. 15	Outstoor Space	One credit where evidence demonstrates the provision of an adequate outdoor amenity space accessible for use by the building's occupants	1		1		•	•			
Heat 20	Home Office	One credit for the provision of a space and services which allows the occupants to set up a home office in a quiet room	1		1	•					

Unite TP BREEAM_2008_Assessment_Tool_rev17.abad9REEAM.Credits

	Up to four credits are available: One credit where evidence demonstrates that: - arborne sound insulation values are at least 3dB higher - impact sound insulation values are at least 3dB kower OR Three credits where evidence demonstrates that - arborne sound insulation values are at least 5dB higher						
Hes 21 Sound Insulation	- impact sound insulation values are at least 5dB lower OR Four credits where evidence demonstrates that - athores sound neukation values are at least 8dB higher - impact sound insulation values are at least 8dB lower Than the performance starkards ear out on the Sulidian Regulations for England and Wales, AD E (2005 edition, with anymendments on 2004)	4	1		•		
	Default cases Four motifs for detached dwellings There motifs for attached dwellings where separating walls or floors only occur between non-habitable tooms						

Unite TP BREEAM_2008_Assistament_Tool_rev17.stat8REEAM Credits

Energ	Y	THE R. P. LEWIS CO., NAMES AND ADDRESS OF TAXABLE PARTY.		August August	Sec. 1					
Ene 1	Reduction of CO2 Emissions	Up to filteen credits where evidence provided demonstrates an improvement in the energy efficiency of the building's fabric and services and therefore achieves lower building operational related CO2 emissions.	15	8		•		6	10	
Ene 2	Sub-metering of Substantial Energy Uses	One credit where evidence provided demonstrates the provision of direct sub- metering of energy uses within the building.	1	1			1	1	1	
Ene 4	External Lighting	One coult where energy-efficient external lighting is specified and all light fittings are controlled for the presence of disylight.	1	1		•	•			
Ere 5	Law zero carbon technologies	One credit where evidence provided demonstrates that a feasibility study considering local (on-site and/or new she) have zero carbon (LZC) technologies has been carried out and the results implemented. Two credits where evidence provided demonstrates that the first credit has been achieved and there is a 10% reduction in the building's CO2 emissions as a result of the installation of a feasible local LZC technology. Three oradis where evidence provided demonstrates that the first credit has been achieved and there is a 10% reduction in the building's CO2 emissions as a result of the installation of a feasible local LZC technology. Or alternatively: A maximum of one credit where evidence provided demonstrates that a contract with an energy suppler is in place to provide demonstrates that a contract with an energy suppler is in place to provide demonstrates that a contract with an energy suppler is in place to provide demonstrates that a contract with an energy suppler is in a low making attribute electricity used within the assessed building/devides/generation may making a strategy accurate the action of the contract line in the first credit has been actions. (Note: a standard Green Tariff will not comply)	3	2			•	1	1	
Ene 15	Provision of Energy Efficient Equipment	Up to the credits are available: One credit where evidence provided demonstrates that all domestic scale fridges, freezes and fridge/freezens have an A+ rating under his EU Energy Efficiency Labeling Bicheme One additional credit svallable where evidence provided demonstrates that: - domestic washing machines and definations have an A rating AND - domestic washing machines and definations have a 8 rating under the EU Energy Efficiency Labeling Bicheme AND commercial scale laundly haldlines within the development will machines opportunities for energy efficient operation Or alternatively: A machinum of one credit available where no (or not all) white goods are provided but information and the EU Energy Labeling Scheme of efficient white goods are provided to residential aspects of the building	2	2						
Ene 18	Drying space	One credit where evidence provided demonstrates that: Self contained dwellings: Space with posts and footings, or fixings capable of holding: - 1-2: backnowns: 6m of drying line - 3: backnowns: 6m of drying line ANDXOR Individual badrooms: Space with posts and footings, or fixings capable of holding: - 2m+ of drying line per badroom	1	0						

Unite TP BREEAM_2008_Assessment_Tool_rev17.steaBREEAM Credits

Trans	port			-		-						
Tra 1	Provision of public transport	Up to three credits are exercised on a sliding scale based on the assessed buildings' accessibility to the public transport network.	3		3							
Tra 2	Proximity to amenities	Up to two credits are evaluable: One credit where evaluace provided demonstrates that the building is located within 500m of key accessible local amenities appropriate to the building type and its users One additional credit where evidence provided demonstrates that the building is located within 1000m of at least 5 additional accessible local amenities appropriate to the building type and its users	2		2			•	•	•	•	
Tra. 3	Cyclist Facilities	One credit where evidence is provided to demonstrate that there is adequate provision of: a, covered, secure and well it cycle racks for staff and residents b, secure storage for wheelchairs and electric buggies	1		0			•	•			
Tra 4	Pedestrian and cycle safety	One credit where evidence provided demonstrates that the site layout has been designed in accordance with best practice to ensure eate and adequate pedestrian and cycle access.	1		1			•				
Tra 6	Maximum car parking capacity	Up to two credits are evaluable: Where evidence provided demonstrates that the number of parking spaces provided for the building has been limited First credit For Shebrend housing and care homes: Where evidence provided demonstrates that there is no more than one parking space provided for evers: Where evidence provided demonstrates that there is no more than one parking space provided for every their building users. For all other users: Where evidence provided demonstrates that there is no more than one parking space provided for every three building users. Where evidence provided more strate there is no more than one parking space provided for every thre building users. For all other users: Where evidence provided demonstrates that there is no more than one parking space provided for every five building users. For all other users: Where evidence provide demonstrates that there is no more than one parking space provided for every five building users.	2		2							
Water							-				And in case of the local division of the loc	a second se
Wat 1	Water Consumption	Four credia available where evidence provided demonstrates that the specification includes taps, utmats, WOs and showers that consumes less potable water in use than standard specifications for the same specifications for the same type of fittings.	4		1			1	1	1	2	
Wal 2	Water meter	One credit where evidence provided demonstrates that a water meter with a pulsed output will be installed on the means supply to each buildingtunit.	1		1		•	1	1	1	1	
Wat 3	Major laak detection	One credit where evidence provided demonstrates that a leak detector system is specified or installed on the building's water supply.	1		1						•	
Wats	Water recycling	One credit where evidence provided demonstrates the specification of systems that collect, store and, where necessary treat, rainwater or greywater for WC and urtinal flushing purposes.	1		0						-	

Wal 6	lerigation systems	One credit where evidence provided demonstrates that a low-water impacton strategy/system has been installed, or where planting and landscaping a impated via nanwater or reclaimed water.	1		1		•	-	•	•	
Materi	als	and the second	- starting		in the stand						
Mat 1	Materials Specification (major building elements)	Up to six credits are available, determined by the Green Guide to Specification ratings for the major building elements.	6		3	•	•		*		
Met 2	Hard landscaping and boundary protection	One credit where evidence provided demonstrates that at least 80% of the combined area of external hard landscaping and boundary protection specifications achieve an A or A+ rating, as defined by the Green Guide to Specification.	1		1		•				
Mat 3	Re-use of building façade	One credit is assuried where evidence provided demonstrates that at least 50% of the total tapade (by area) is recreased and at least 80% of the mixed tapade (by mass) comprises in-situ reused material.	1		0						
Mat 4	Re-use of building structure	One credit is searched where evidence provided demonstrates that a design reuses at heat 60% of an existing primary structure and for part refurblahment and part new build, the volume of the reused structure comprises at least 50%, of the final structure's volume.	1		0		•	•	•	•	
Mat 5	Responsible sourcing of materials	Up to 3 credits are available where evidence provided demonstrates that 80% of the assessed materials in the following building elements are responsibly sourced: a. Structured Frame b. Ground Roor c. Upper floors (including expansing floors) d. Roof e. Enternal wells f. Internal wells g. Foundation/wubstructure h. Statroase Additionally 100% of any timber must be legally sourced.	3		0				•		
Mat 0	Insulation	One credit where evidence provided demonstrates that thermal insulation products used in the building have a low embodied inspati traktive to their thermal properties, determined by the Green Ducide to Expeditication ratings. One credit where evidence provided demonstrate that thermal insulation products used in the building have been responsibly sourced.	2		1						
Mat 7	Designing For Robustness	One credit where protection is given to vulnerable parts of the building such as areas exposed to high pedestrian traffic, vehicular and trolley movements.	1	E	1			•			
Mat 6	Responsible sourcing of materials - finishing elements	Up to 2 credits are available where evidence provided demonstrates 80% of the assessed materials in the following finishing elements are responsibly sourced: b. State b. Windows c. External and internal doors d. Skriftig e. Parelling f. Faceling g. Faceling g. Faceling b. Any other significant use Additionally 100% of any timber must be legably sourced.	2		0		•				

			-		 						
Wat 1 Construction Site Waste Management	Up to three credits are available where evidence provided demonstrates that the arrount of non-hazardous construction maste (mX100m0 or tennes100m0) generated on an ite by the development is the same as or better than good or best practice lavels. One credit where evidences provided demonstrates that a significant majority of non- hazardous construction waste permanded by the development will be diverted from landfill and reused or recycled.	4		4			•				
Wet 2 Recycled aggregates	One credit where evidence provided demonstrates the significant use of recycled or secondary aggregates in "righ-grade" building aggregate uses.	1		0			•		•		
Wat 3 Recyclable waste storage	Up to two credits are available: One credit where storage space is provided for recycliable household waste in each: - Set contraunal kitchen or other suitable communal room One additional credit where a central, dedicated space is provided for the storage of the building's recycliable waste streams	2		2			•	1	1	Real Property lies	
Wat 5 Composing	One credit where individual home composting facilities are provided for individual dwellings/communal kitchens AND Where evidence provided demonstrates there is a vessel on alte for composting food water, and adequate storage for such waste generated by the building's users and operation OR Where space or access is limited, there is a dedicated space for compostable food waste to be stored prior to removal and composting at an alternative site.	1		0							
Land Use & Ecology											
LE1 Reuse of land	One credit where evidence provided demonstrates that the majority of the footprint of the proposed development falls within the boundary of previously developed land.	1		1		•					
LE2 Contaminated land	One credit where evidence provided demonstrates that the land used for the new development has, prior to development, been defined as contaminated and where adequate remedial steps have been taken to decontaminate the alte prior to construction.	1		0		U.					
LE3 Ecological value of site AND Protection of ecological features	One credit where evidence provided demonstrates that the construction zone is defined as lard of low ecclopical value and all existing frestures of ecological value will be fully protected from damage during site preparation and construction works.	1		1							
LE4 Mitgating Ecological impact	Up to two credits are available: One credit where evidence provided demonstrates that the change in the she's existing ecological value, as a result of development, is minimal. Two credits where evidence provided demonstrates that there is no negative change in the site's existing ecological value as a result of development.	2		2			1	1	1		

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Units TP BREEAM_2008_Assessment_Tool_rev17.stoBREEAM Credits

-					-	4				
LES	Enhancing Site Ecology	Up to three credits are avalable: One credit where the design team (or clerd) has appointed a suitably gualited ecologis to advise and report on snhancing and protecting the ecological value of the anis, and implemented the professional's recommendations for general enhancement and protection of the ecology. Two credits where, in addition to the above, there is a positive increase in the ecological value of the site of up to (turt not including) 8 species. Three credits where, in addition to the above, widence is provided to demonstrate a positive increase in the ecological value of the site of 8 species or greater.	3	2		÷		*		
LEO	Long term impact on blockversity	One credit where the client has committed to achieving the mandatory requirements lineace below and at least two of the additional requirements. Two credits where the client has committed to achieving the mandatory requirements listed below and at least four of the additional requirements.	2	1	•			•		
Pollut	ion									
Pel 1	Rehigerent GWP - Building services	One credit where evidence provided demonstrates the use of refrigerants with a global warming potential (GWP) of leas than 5 or where there are no refrigerants apeolised for use in building services.	1	0				•		
Pol 2	Preventing refrigerant leaks	Up to two credits are available: One credit where evidence provided demonstrates that refrigerant leaks can be detected or where there are no refrigerants specified for the development. One credit where evidence provided demonstrates that the provision of automatic refrigerant pump down is made to a heat exchanger (or dedicated storage tanks) with lackation valves. Or where there are no refrigerants specified for the development.	2	2	•					
Pol 4	NOX emissions from heating source	Up to three credits are available: Up to three credits are available: delivered space heating energy are <100 mg/kWh (at 0% excess O2). Two credits where evidence provided demonstrates that the sty NOx emissions from delivered space heating energy are <70 mg/kWh (at 0% excess O2). Three credits where evidence provided demonstrates that the sty NOx emissions from delivered space heating energy are <60 mg/kWh (at 0% excess O2).	3	0	•		•	•		
Pols	Pland risk	Two credits where evidence provided demonstrates that the assessed development is located in a zone defined as having a low annual probability of flooding. One credit where evidence provided demonstrates that the assessed development is located in a zone defined as having a medium or high annual probability of flooding AND the ground level of the building, car parking and access is above the design flood level for the latter is descent. One further credit where evidence provided demonstrates that surface water run-off attenuism measures are specified to minimise the link of localed flooding. Insulting from a loss of flood storage on site due to development.	3	0	•				•	

Pdit	Minimising wearcourse pollution	One credit where evidence provided demonstrates that effective on site treatment such as Sustainable Drainage Systems (SUDIs) or ol expanators have been specified in areas that are or could be a source of widercourse poliution.	1	0					
Pol 7	Reduction of Night Time Light Pollution	One credit where evidence provided demonstrates that the external lighting design is in compliance with the guidance in the Institution of Lighting Engineers (ILE) Guidance notes for the reduction of obtrueive light, 2006.	1	1			•		

Innovation - Exemplary Level C	Triteria	STREET, BU	
Innovation Man 2: Considerate Constructors	Where post construction, a Considerate Constructors Scheme certificate can be provided demonstrating that the site achieved CDS Code of Considerate Practice with a score of all least 35. OR Where post construction, the site has complete in full with the alternative, molependently assessed scheme, and the alternative scheme addresses all the mandatory and optional items in Checklat A2.	1	0
Innovation Hea 7: Daylighting	At least 80% of the floor area (for the building apuseahoom identified above in the standard requirements) has an average daylight factor of 3% in multi-storey buildings and 4% in single-storey buildings.	1	0
Innovation Ene 1: Reduction of CO2 emissions	One additional innovation: credit can be associed where evidence provided demonstrates the building is designed to be a carbon nautral building as defined by the NOM (i.e. in terms of building services energy demand), as follows: a. A new building achieves a COO index less them 0 on the technical scale. b. A multibuilding achieves a COO index can be to on the schematic scale. The additionals: The additionals introvation credits can be associated where evidence provided demonstrates the building is designed to be a True attracts building (in terms of building services and operational energy demand).	2	0
Innovation Ene 5: Low or Zero Carbon Technologies	A local LZC energy technology has been installed in Sne with the recommendations of a compliant feasibility study and this method of supply results in a 20% reduction in the building's GO2 emissions.	1	0
Innovation Wat 2: Water Meter	Where sub-meters are titled to allow individual water-consuming plant or building areas to be monihored such as cooling towers, car washes, catering areas, etc. If the building does not have any major water consuming plant this exemplar coeff is not available. Each sub-meter has a publied output to enable connection to a Building Management Bystem (BMS) to the monihoring of water consumption. In addition to the above, for sites with multiple departments e.g. large heads contexes or aouth hospitals, asparate publied aub meters are fitted on the supply to the following areas where present: a. Staff and public areas b. Clinical areas and wards c. Letting areas: On the water supply to each terant unit d. Lauridies w. Main production kitchen f. Laborationes b. Clinical waters pools g. Laborationes h. Clinical waters water supply to main any other major process water care.	1	1
Innovation Materials Epecification	One examplary BREEAM credit can be awarded as follows: a, Where assessing four or more applicable building elements, the building achieves at least two points actistical to be total points required to achieve maximum credits under the standard BREEAM requirements. b. Where assessing fewer than four applicable building elements, the building achieves at least one point additional to the total points required to achieve maximum credits under the datard BREEAM requirements.	1	0
Innovation Responsible Sourcing of Materials	Where, in addition to the standard BREEAM requirements, 95% of the applicable materials, comprised within the applicable building elements, have been responsibly sourced.	1	0

ovation Wat 1 Construction Site Waste Management	Where non-hazardous construction waste generaled by the building's development meets ar exceeds the resource efficiency benchmark required to achieve three credits (an othere of the guidance). Where at least 80% by weight (80% by volume) of non-hazardous construction waste and 85% of demoliton waste by weight (85% by volume) (if applicable) generated by the build has been diverted from landfill and either: a. Resured on site (in-site of no new applications) b. Resured on site (in-site of no new applications) b. Resured on site (in-site of no new applications) b. Reserved mineralised for new applications) b. Reserved mineralised for new applications B. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier via a take-back scheme e. Reserved from site by an applier e. Reserved from si	1	0
PREFAIL Annual of Deducing	Up to two oracits are available for the comprehensive use of a BREEAM Accredited Professional (AP) throughout project work stages.	2	0
ovation Approved Innovations	red Innovation credits Additional BREEAM Innovation Credits can be awareded where an application is made to, and approved by the BREEAM office using the Innovation Application Form and the assessor continue compliance with the criteria set out within the Innovation Application Form.	-	0

The Unite Group PLC Nov 2012

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